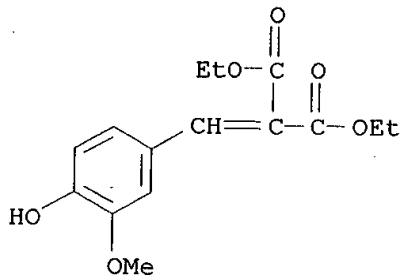


RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

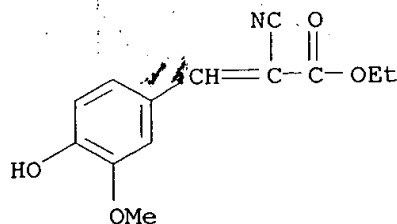
L7 ANSWER 9 OF 65 HCAPLUS COPYRIGHT 2002 ACS
AN 1999:277526 HCAPLUS
DN 130:359294
TI Stable storage of positive-working photoresist
IN Ichikawa, Koji; Shintome, Satoshi; Nagase, Kyoko
PA Sumitomo Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11119425	A2	19990430	JP 1997-278569	19971013
OS	MARPAT 130:359294				
AB	A photosensitive agent stabilizer having a benzylidene skeleton is added to a pos.-working photoresist prep. by dissolving a novolak resin and a quinonediazide-type photosensitive agent in a solvent. The photoresist soln. shows good storage stability.				
IT	24331-83-7 , 4-Hydroxy-3-methoxybenzylidene malonic acid diethyl ester RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (photoresist compn. contg. novolak resin, quinonediazide compd., and benzylidene compd. as storage stabilizer)				
RN	24331-83-7 HCAPLUS				
CN	Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester (9CI) (CA INDEX NAME)				



L7 ANSWER 4 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 2000:269237 HCAPLUS
 DN 132:347648
 TI The reaction of alkyl phosphites with .alpha.,.beta.-unsaturated nitriles, anils and oximes derived from aromatic aldehydes
 AU Mahran, Mohamed Refat H.; Hafez, Taghrid S.; Henary, Maged Mories
 CS Dept. of Pesticide Chemistry, National Research Centre, Cairo, Egypt
 SO Phosphorus, Sulfur Silicon Relat. Elem. (1998), 139, 13-28
 CODEN: PSSLEC; ISSN: 1042-6507
 PB Gordon & Breach Science Publishers
 DT Journal
 LA English
 OS CASREACT 132:347648
 AB Reactions of dialkyl phosphites ((RO)2POH; R = Me, Et) and trialkyl phosphites ((R1O)3P; R = Me, Et) with the .alpha.,.beta.-unsatd. nitriles (ArCH:CR2CN; ArCHO = vanillin, piperonal; R2 = CN, CO2Et) as well as with anils (ArCH:NPh) are reported. Structures of the new phosphonate products were based upon compatible elementary and spectroscopic results. Trialkyl phosphites and PPh3 convert vanillin oxime (3-MeO-4-HOC6H3CH:NOH) into 4-hydroxy-3-methoxybenzonitrile (19). Possible reaction mechanisms to account for formation of some of the products ((RO)2P(O)CH(C6H3OMe-3-OH-4)CHR2CN; (EtO)2P(O)CH(C6H3OMe-3-OEt-4)CHR2CN; 19) were also postulated.
 IT **13373-29-0**, Ethyl 2-cyano-3-(4-hydroxy-3-methoxyphenyl)acrylate
 RL: RCT (Reactant)
 (reactions with alkyl phosphites)
 RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



✓ RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 2000:205484 HCAPLUS
 DN 133:17249
 TI Structural Studies on Bioactive Compounds. 32.Oxidation of Tyrphostin Protein Tyrosine Kinase Inhibitors with Hypervalent Iodine Reagents
 AU Wells, Geoffrey; Seaton, Angela; Stevens, Malcolm F. G.
 CS Cancer Research Laboratories School of Pharmaceutical Sciences, University of Nottingham, Nottingham, NG7 2RD, UK
 SO Journal of Medicinal Chemistry (2000), 43(8), 1550-1562
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB Hydroxylated styrenes (tyrphostins) undergo oxidn. by hypervalent iodine

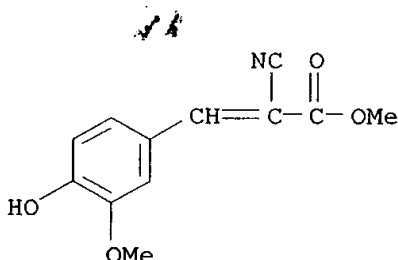
oxidants such as [(diacetoxy)iodo]benzene (DAIB) to give a range of products depending on the structure of the phenolic substrate, the solvent, the oxidant stoichiometry, and the purifn. strategy. Conditions have been developed to modify the phenolic component of the tyrphostin without affecting the appended substituted-vinyl moiety. Novel products include: unstable 2-acyloxy-2-methoxy-4-(substituted-vinyl)cyclohexadienones and their rearrangement products 2-acyloxy-4-hydroxy-3-methoxy-1-(substituted-vinyl)benzenes; phenyliodonio phenolates and their rearrangement products iodophenoxytyrphostins; and 3,3'-dialkoxy-2,2'-dihydroxy-5,5'-di(substituted-vinyl)biphenyls. None of these oxidn. products displayed enhanced activity in vitro in the NCI 60-cell line panel or in a panel of human breast cancer cell lines, compared to their tyrphostin precursors. The inhibitory activity of three representative tyrphostins was not modulated by aerobic/anaerobic conditions in MCF-7 and MDA 468 cells and was independent of EGFR status in clones of ZR75B cells transfected with this receptor. Basal growth of MCF-7 cells was unaffected by co-administration of the growth factors EGF, TGF-.alpha., IGF-I, and IGF-II, and the new agents did not inhibit EGFR and c-erbB2 autophosphorylation in cell lysates from MDA 468 or SkBr3 cells, resp., suggesting that receptor tyrosine kinases are not targets for these compds. Growth stimulation by the tyrphostin, 4-hydroxy-3-nitrobenzylidenemalonitrile, in the ER+ breast cell lines MCF-7, T47D, and ZR75-1 was abolished by 1 .mu.M tamoxifen, suggesting that this compd. has estrogen agonist activity.

IT 72955-44-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of tyrphostin protein tyrosine kinase inhibitors
with hypervalent iodine reagents)

RN 72955-44-3 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester
(9CI) (CA INDEX NAME)

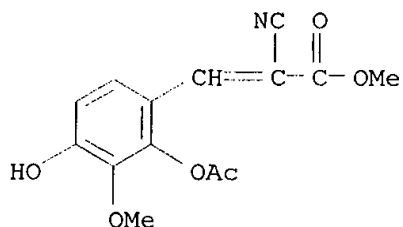


IT 272785-37-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of tyrphostin protein tyrosine kinase inhibitors
with hypervalent iodine reagents)

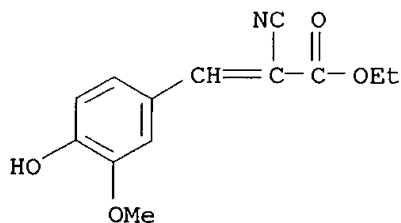
RN 272785-37-2 HCAPLUS

CN 2-Propenoic acid, 3-[2-(acetyloxy)-4-hydroxy-3-methoxyphenyl]-2-cyano-,
methyl ester (9CI) (CA INDEX NAME)



RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

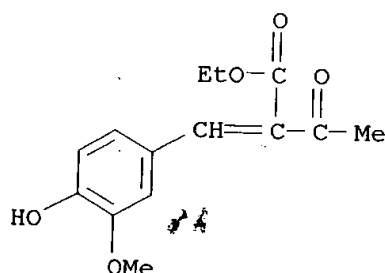
L7 ANSWER 6 OF 65 HCAPLUS COPYRIGHT 2002 ACS
AN 1999:687967 HCAPLUS
DN 132:49774
TI An efficient Knoevenagel condensation using HZSM-5 zeolite as catalyst
AU Heravi, Majid M.; Tajbakhsh, Mahmood; Mohajerani, Bagher; Ghassemzadeh, Mitra
CS Chemistry and Chemical Engineering Research Center of Iran, Tehran, Iran
SO Indian J. Chem., Sect. B: Org. Chem. Incl. Med. Chem. (1999), 38B(7), 857-858
CODEN: IJSBDB; ISSN: 0376-4699
PB National Institute of Science Communication, CSIR
DT Journal
LA English
OS CASREACT 132:49774
AB HZSM-5 zeolite-assisted Knoevenagel condensation of arom. aldehydes with malononitrile and Et cyanoacetate gave unsatd. nitriles.
IT **13373-29-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(Knoevenagel condensation using HZSM-5 zeolite as catalyst)
RN 13373-29-0 HCAPLUS
CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester (9CI)* (CA INDEX NAME)



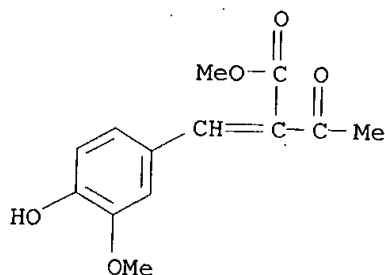
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 65 HCAPLUS COPYRIGHT 2002 ACS
AN 1999:600444 HCAPLUS
DN 131:351056
TI Synthesis of ethyl .alpha.-cyanocinnamates under ultrasound irradiation
AU Li, Ji-Tai; Li, Tong-Shuang; Li, Li-Jun; Cheng, Xi
CS Department of Chemistry, Hebei University, Baoding, 071002, Peop. Rep. China

ANSWER 16 OF 65 HCAPLUS COPYRIGHT 2002 ACS
1997:79526 HCAPLUS
DN 126:171460
TI Synthesis and biological evaluation of some novel 1,4-dihydropyridines as calcium channel blockers
AU Shirodkar, P.Y.; Varadarajan, S.
CS Department of Pharmaceutical Chemistry, K.M. Kundnani College of Pharmacy, Mumbai, 400 018, India
SO Indian J. Heterocycl. Chem. (1996), 6(2), 155-156
CODEN: IJCHEI; ISSN: 0971-1627
PB Lucknow University, Dep. of Chemistry
DT Journal
LA English
AB Various 1,4-dihydropyridines as analogs of nifedipine were synthesized and evaluated for biol. activity on isolated frog heart.
IT 89082-79-1 187245-33-6 187245-34-7 187245-35-8
RL: RCT (Reactant)
(prepn. and biol. evaluation of 1,4-dihydropyridines as calcium channel blockers)
RN 89082-79-1 HCAPLUS
CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

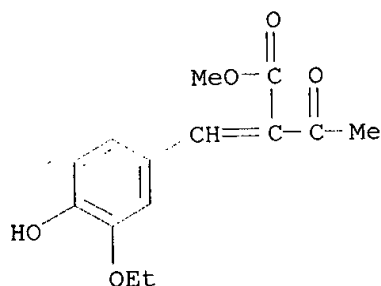


RN 187245-33-6 HCAPLUS
CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, methyl ester (9CI) (CA INDEX NAME)

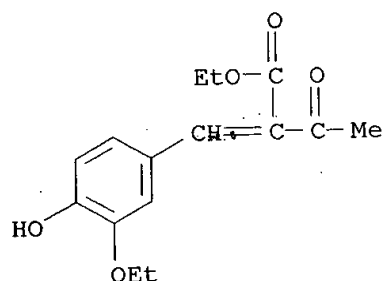


RN 187245-34-7 HCAPLUS
CN Butanoic acid, 2-[(3-ethoxy-4-hydroxyphenyl)methylene]-3-oxo-, methyl ester (9CI) (CA INDEX NAME)

ester (9CI) (CA INDEX NAME)

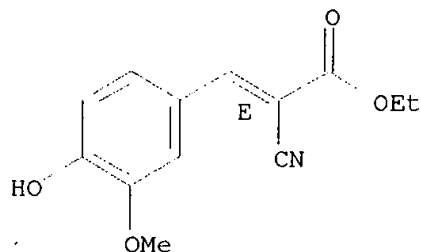


RN 187245-35-8 HCAPLUS
 CN Butanoic acid, 2-[(3-ethoxy-4-hydroxyphenyl)methylene]-3-oxo-, ethyl ester
 (9CI) (CA INDEX NAME)



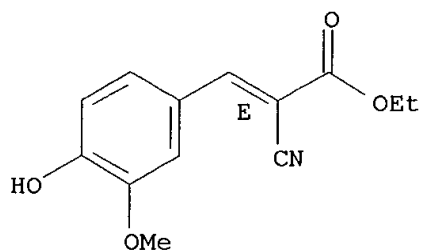
L7 ANSWER: 17 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1997:54562 HCAPLUS
 DN 126:171372
 TI Condensation reaction of carbonyl compounds with active methylene compds.
 catalyzed by potassium fluoride on alumina
 AU Gao, Yuan; Shi, Da-Qing; Zhou, Long-Hu; Dai, Gui-Yuan
 CS Dep. Chem., Xuzhou Normal Univ., Xuzhou, 221009, Peop. Rep. China
 SO Youji Huaxue (1996), 16(6), 548-551
 CODEN: YCHHDX; ISSN: 0253-2786
 PB Kexue
 DT Journal
 LA Chinese
 AB Condensation reaction of RCHO (R = Ph, substituted Ph, 2-furyl) with
 R1CH2CN (R1 = CO2Et, CONH2) in the presence of KF-Al2O3, gave 60-95%
 (E)-RCH:CR1CN.
 IT **132464-93-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (condensation reaction of carbonyl compds. with active methylene
 compds. catalyzed by potassium fluoride on alumina)
 RN 132464-93-8 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L7 ANSWER 22 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1995:761415 HCAPLUS
 DN 123:256296
 TI Knoevenagel condensation catalyzed by potassium fluoride/alumina
 AU Dai, Guiyuan; Shi, Daqing; Zhou, Longhu
 CS Department Chemistry, Xuzhou Teacher's College, Xuzhou, 221009, Peop. Rep. China
 SO Yingyong Huaxue (1995), 12(3), 103-4
 CODEN: YIHUED; ISSN: 1000-0518
 DT Journal
 LA Chinese
 AB Condensation of RCHO (R = Ph, substituted Ph, thienyl) with R1CH2CN (R1 = CO2Et, CONH2) in EtOH in the presence of KF/alumina gave 61-95% (E)-RCH:CR1CN.
 IT **132464-93-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (Knoevenagel condensation catalyzed by potassium fluoride/alumina)
 RN 132464-93-8 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester, (2E)- (9CI) (CA INDEX NAME)

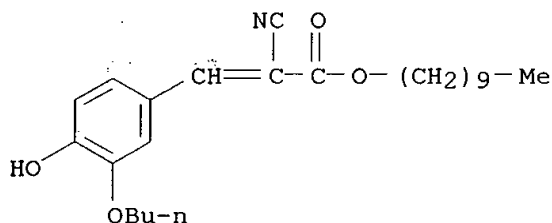
Double bond geometry as shown.



L7 ANSWER 23 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1995:586355 HCAPLUS
 DN 122:326347
 TI A silver halide photographic material.
 IN Kawamoto, Fumio
 PA Fuji Photo Film Co., Ltd., Japan
 SO Eur. Pat. Appl., 68 pp.
 CODEN: EPXXDW
 DT Patent
 LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 631177	A1	19941228	EP 1994-109646	19940622
	R: DE, FR, GB, IT, NL				
	JP 07013299	A2	19950117	JP 1993-174623	19930623
PRAI	JP 1993-174623		19930623		
OS	MARPAT 122:326347				
AB	There is disclosed a Ag halide photog. material having a support and .gtoreq.1 Ag halide emulsion layer on .gtoreq.1 side of the support, wherein the support is made of a polyethylene naphthalate or its deriv. and contains 0.02 to 10 g/m2 of .gtoreq.1 UV absorbent; with a thickness of 40 to 500 .mu.m. There are 4 Markush structures provided for the UV absorbent material. The material has high resistance against curling, discoloration, and fogging.				
IT	160583-35-7				
	RL: DEV (Device component use); NUU (Other use, unclassified); USES (Uses) (UV-absorber layer for photog. film)				
RN	160583-35-7 HCAPLUS				
CN	2-Propenoic acid, 3-(3-butoxy-4-hydroxyphenyl)-2-cyano-, decyl ester (9CI) (CA INDEX NAME)				



L7 ANSWER 24 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1995:570878 HCAPLUS
 DN 122:326358
 TI Silver halide photographic material
 IN Kawamoto, Fumio
 PA Fuji Photo Film Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 58 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07013298	A2	19950117	JP 1993-173574	19930622
	US 5593818	A	19970114	US 1995-536493	19951002
PRAI	JP 1993-173574		19930622		
	JP 1993-174623		19930623		
	US 1994-263893		19940622		
GI					

ANSWER 26 OF 65 HCAPLUS COPYRIGHT 2002 ACS
1995:324591 HCAPLUS

DN 122:201046

TI Film-loaded disposable camera

IN Kawamoto, Fumio

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 48 pp.

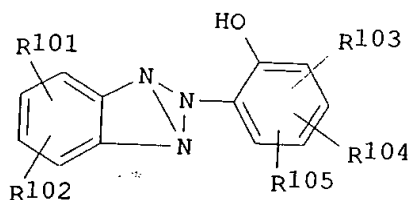
CODEN: JKXXAF

DT Patent

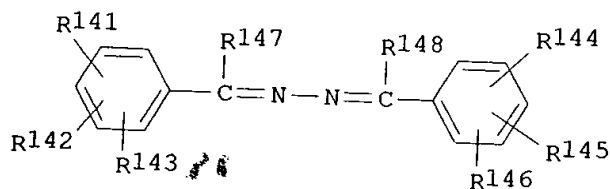
LA Japanese

FAN.CNT 1

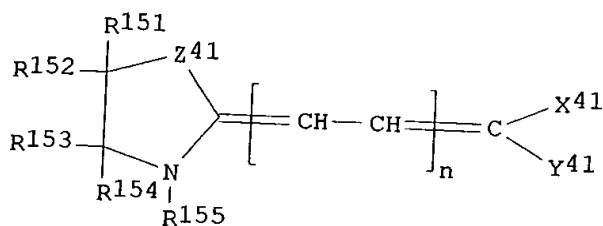
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06202282	A2	19940722	JP 1992-358658	19921228
GI					



I



II



III

AB The plastic lens of the title disposable camera contains .gtoreq. 1 UV absorbers selected from I [R101-105 = H, halo, alkyl, cycloalkyl, alkoxy, aryl, aryloxy, alkenyl, NO2, COOH, SO3H, OH], substituted styrene, substituted benzophenone, substituted Ph benzoate, R131R132NCH:CHCH:CX31Y31 [R131, R132 = H, alkyl, aryl, atoms forming 5- or 6-membered rings; X31, Y31 = CN, COOR, CONHR, COR, SO2R, SO2NHR (R = alkyl, aryl), may join to form 5-7-membered ring], II [R141-146 = H, halo, alkyl, aryl, alkoxy, aryloxy, alkylthio, arylthio, amino, OH, CN, NO2, carbamoyl, sulfonyl, sulfamoyl, sulfonamido, COOH, SO3H, acyloxy, oxycarbonyl; R147, R148 = H, alkyl, aryl, may join to form a 5- or 6-membered ring], and III [R151-154 = H, alkyl, aryl; R151 and R154 may

join to form a double bond; R155 = alkyl, aryl; Z = 41 = O, S, methylene, ethylene, NR156, CR157R158 (R156 = alkyl, aryl; R155, R158 = H, alkyl); n = 0, 1; X41, Y41 = same as X31, Y31 above, n = 0, 1}.

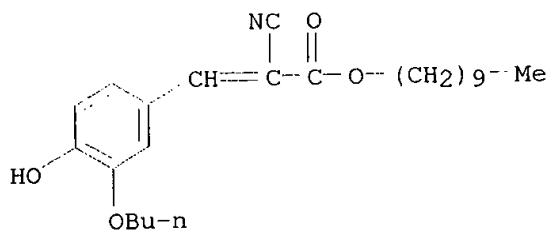
160583-35-7

RL: DEV (Device component use); USES (Uses)

(UV absorber; plastic lens for disposable camera contg.)

160583-35-7 HCAPLUS

2-Propenoic acid, 3-(3-butoxy-4-hydroxyphenyl)-2-cyano-, decyl ester (9CI)
(CA INDEX NAME)



L7 ANSWER 27 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:469078 HCAPLUS

DN 121:69078

TI Organic nonlinear optical material containing (thio)carbonyl- or sulfone-substituted benzene derivatives

IN Yamamoto, Hironobu; Roberuto, Jonson; Funato, Satoru; Uerunaaru, Purasu; Tokida, Akihiko; Yo, Tsutomu; Donarudo, Ruho

PA Hoechst Japan, Japan

SO Jpn. Kokai Tokkyo Koho, 23 pp.

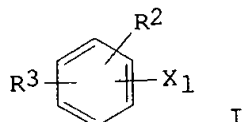
CODEN: JKXXAF

DT Patent

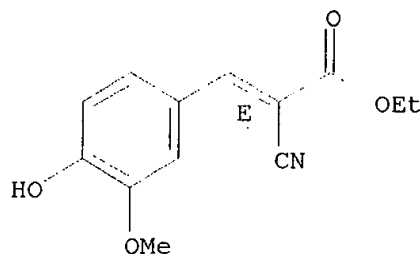
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06018946	A2	19940128	JP 1992-304124	19921113
PRAI	JP 1992-112784		19920501		
OS	MARPAT 121:69078				
GI					



AB Title material contains .gtoreq.1 benzene derivs. I and/or I whose H are (totally) substituted by D [1 = 0-3; X = L1(CO)R1, L1(C:S)R1, L1SO2R1; L1 = NH, O, NHNH; R1 = R4, L2R4, OH, NH2, NR42 [R4 = C1-10 (substituted) alkyl, (substituted) Ph]; L2 = O, CO2, NH, NHCO, NHCO2, O(CH2)mCO2, O(CH2)mO, OCMHCO2, Ph, anilino, phenoxy, benzyloxy, carboxyvinyl, .beta.-naphthyloxy, in which benzene rings may be substituted by R2; m =



L7 ANSWER 29 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1994:41877 HCAPLUS
 DN 120:41877
 TI Radiographic element
 IN Pruett, Wayne P.; Weaver, Max A.; Priebe, Elizabeth K.; Maier, Larry K.;
 Dickerson, Robert E.
 PA Eastman Kodak Co., USA
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9305443	A1	19930318	WO 1992-US7165	19920827
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
	EP 555457	A1	19930818	EP 1992-918820	19920827
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
	JP 06501795	T2	19940224	JP 1993-505256	19920827
PRAI	US 1991-751905		19910829		
	WO 1992-US7165		19920827		

OS MAREAT 120:41877

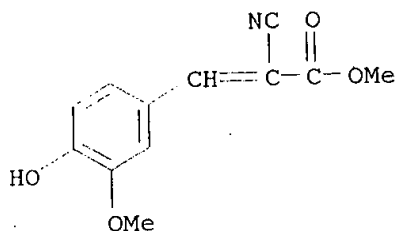
AB A radiog. element comprises a polyester support having double sided Ag halide emulsion layers. An UV light-absorbing methine compd. is admixed in the support or in a layer interposed between the emulsion layers in an amt. sufficient to reduce the av. percent transmission of UV light over the range of wavelength of from about 350 nm to about 395 nm to less than about 25 percent and whereby the percent transmittance of the element is at least about 55 percent at a wavelength of about 410 nm for an element thickness of about 0.007 in.

IT **72955-44-3P**, Methyl 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-2-propenoate

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and use of, in silver halide radiog. materials)

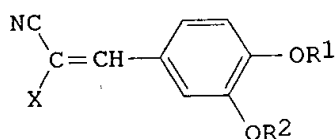
RN 72955-44-3 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester
 (9CI) (CA INDEX NAME)

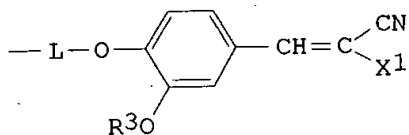


L7 ANSWER 30 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1994:41860 HCAPLUS
 DN 120:41860
 TI Radiographic element
 IN Pruett, Wayne P.; Weaver, Max A.; Priebe, Elizabeth K.; Maier, Larry K.;
 Dickerson, Robert E.
 PA Eastman Kodak Co., USA
 SO PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

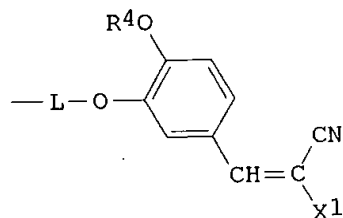
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9305444	A1	19930318	WO 1992-US7161	19920827
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
	US 5215876	A	19930601	US 1991-751846	19910829
	EP 555465	A1	19930818	EP 1992-919393	19920827
	EP 555465	B1	19980401		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
	JP 06501794	T2	19940224	JP 1993-505252	19920827
PRAI	US 1991-751846		19910829		
	WO 1992-US7161		19920827		
OS	MARPAT 120:41860				
GI					



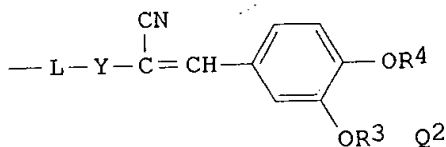
I



Q



Q1



Q2

AB The title element comprises a polyester support coated with a UV-sensitive

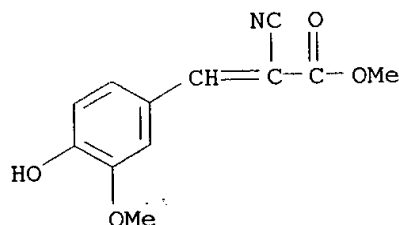
Ag halide emulsion on both sides where the support polyester is copolymd. with .gtoreq.1 UV-absorbing compd. I [R1 = alkyl, aryl, alkenyl, alkynyl, cycloalkyl, H, Q1, Q2; L = org. divalent linking group; R3, R4 = alkyl, alkynyl, alkenyl, cycloalkyl, H; X, X1 = CONR5R6, COR6, SO2R6; R5 = H, alkyl; R6 = alkyl, cycloalkyl, aryl, alkenyl, alkynyl, H, Q3; Y = CO2, CONR5]. The UV-absorbing compd. is present in an amt. sufficient to reduce the av. percent transmission of UV light over the range of 350-395 nm to <25% and the transmission of wavelength .apprx.410 nm is .gtoreq.55% for an element thickness of 0.007 in. The film provides reduced crossover when employed in combination with an intensifying screen.

IT **72955-44-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, in radiog. film support, as UV absorber)

RN 72955-44-3 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester
(9CI) (CA INDEX NAME)



L7 ANSWER 31 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1992:507838 HCAPLUS

DN 117:107838

TI Chemistry of self-inhibitors of fungal spore germination

AU Ueno, Tamio; Tsurushima, Tetsu; Fukami, Hiroshi; Irie, Hiroshi

CS Fac. Agric., Kyoto Univ., Kyoto, 606, Japan

SO Stud. Nat. Prod. Chem. (1991), 9(Struct. Chem., Pt. B), 219-48

CODEN: SNPCE2

DT Journal

LA English

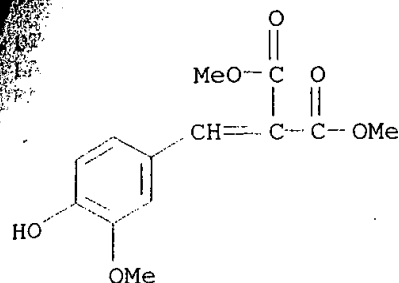
AB The regulation of germination of spores of Colletotrichum and Puccinia by compds. contained within the spores themselves was studied. An active self inhibitor from Puccinia was identified as Me cis-3,4-dimethoxycinnamate. Analogs of these inhibitors were synthesized and tested for spore germination inhibitory activity. Structures are proposed for self-inhibitors from C. gloeosporioides.

IT **5854-18-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and uredospore germination by Puccinia inhibition by)

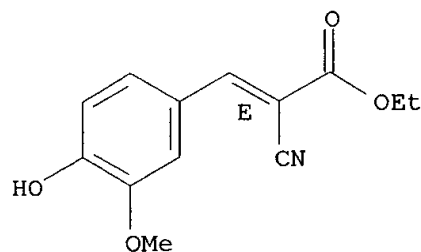
RN 5854-18-2 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, dimethyl ester
(9CI) (CA INDEX NAME)



L7 ANSWER 32 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1992:20752 HCAPLUS
 DN 116:20752
 TI Zinc chloride as a new catalyst for Knoevenagel condensation
 AU Rao, P. Shanthan; Venkataratnam, R. V.
 CS Indian Inst. Chem. Technol., Hyderabad, 500 007, India
 SO Tetrahedron Lett. (1991), 32(41), 5821-2
 CODEN: TELEAY; ISSN: 0040-4039
 DT Journal
 LA English
 OS CASREACT 116:20752
 AB The Knoevenagel condensation of carbonyl substrates ArCHO [Ar = Ph, 4-MeOC6H4, (E)-PhCH:CH, etc.] with acidic methylene reagents RCH2CN (R = CN, CONH2, CO2Et) proceeds smoothly in the presence of zinc chloride without the need for solvent, to produce (E)-ArCH:C(CN)R in 82-97% yields.
 IT **132464-93-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 132464-93-8 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

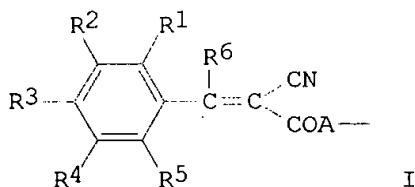


L7 ANSWER 33 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1991:523866 HCAPLUS
 DN 115:123866
 TI Photoresist compositions with high sensitivity, resolution, and thermal stability
 IN Sakaguchi, Shinji; Adachi, Keiichi
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02275453	A2	19901109	JP 1989-97876	19890418
OS	MARPAT 115:123866				
GI					



AB The title photoresist compns. contain alkali-sol. resins and cyanocinnamate photosensitive compds. QB [Q = I; R1-5 = H, halogen, OH, alkyl, alkoxy, alkylthio, aralkyl, aryl, amino, mono- or dialkylamino (not in the case of A = O), acylamino, alkylcarbamoyle, arylcarbamoyle, alkylsulfamoyle, arylsulfamoyle, carboxy, cyano, nitro, acyl, alkyloxycarbonyl, aryloxycarbonyl, acryloxy; any two of R1-5 may form 5- to 7-membered ring; R6 = H, lower alkyl, cyano; A = O, NR7; B = H, C1-3 (un)substituted aliph. group, QnR8; R7 = B; R8 = C2-20 (n + 1)-valent group; n = 1-3] or quinone azide; the alkali-sol. resin may be a cresol novolak.

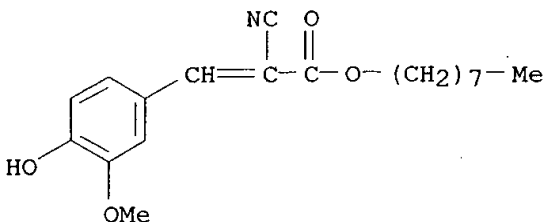
IT 135802-43-6

RL: USES (Uses)

(photoresist contg. alkali-sol. resins and, with high sensitivity and resoln.)

RN 135802-43-6 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, octyl ester
(9CI) (CA INDEX NAME)



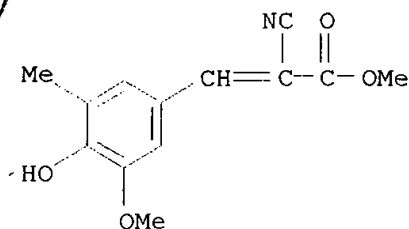
L7 ANSWER 34 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1991:185122 HCAPLUS

DN 114:185122

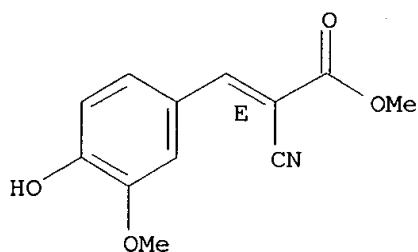
TI Novel caffeic acid derivatives: extremely potent inhibitors of
12-lipoxygenase

AU Cho, Hidetsura; Ueda, Masaru; Tamaoka, Mie; Hamaguchi, Mikiko; Aisaka,

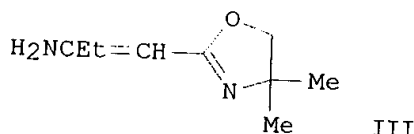
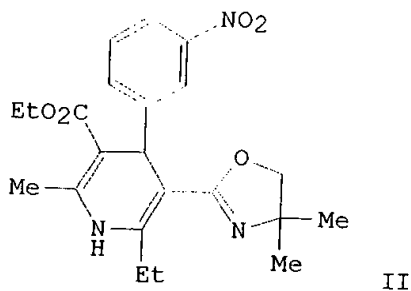
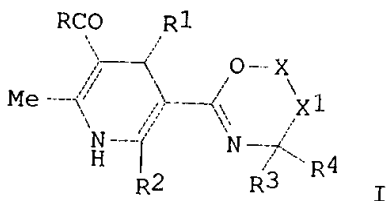


L7 ANSWER 37 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1987:138824 HCAPLUS
 DN 106:138824
 TI The synthesis of polyesters containing a nonrandomly placed highly polar repeating unit
 AU Green, G. David; Weinschenk, Joseph I., III; Mulvaney, J. E.; Hall, H. K., Jr.
 CS Dep. Chem., Univ. Arizona, Tucson, AZ, 85721, USA
 SO Macromolecules (1987), 20(4), 722-6
 CODEN: MAMOBX; ISSN: 0024-9297
 DT Journal
 LA English
 AB Polyesters contg. p-oxyalkoxy-.alpha.-cyanocinnamate repeating units were prepd. by a 2-stage high-temp. polymn. of Me 12-hydroxydodecanoate [71655-36-2] with monomers prepd. from .omega.-hydroxyalkoxy-substituted benzaldehydes with Me cyanoacetate [105-34-0]. The polyesters were soln.- and melt-processable.
 IT **107115-19-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and characterization of, as model polyester)
 RN 107115-19-5 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester, (E) (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L7 ANSWER 38 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1986:562261 HCAPLUS
 DN 105:162261
 TI Photosensitive polymers
 IN Nakamura, Chiaki; Koe, Koji; Sasaki, Toshiki
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.



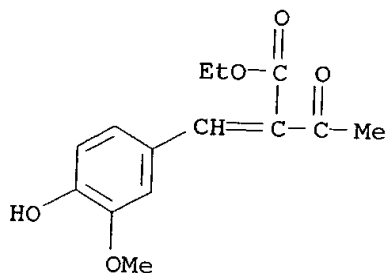
AB The title compds. I (X = bond, R5CH; X1 = bond, CH2, CH2CH2; R = alkyl, alkoxyalkyl, aminoalkyl, haloalkyl; R1 = cycloalkyl, bicycloalkenyl, heteroaryl, aryl; R2 = alkyl, Ph, thienyl; R3, R4 = alkyl, alkoxyalkyl; R5 = alkyl, aryl) were prepd. for use as Ca channel blockers and antihypertensives (no data). Thus, II was obtained by treating the oxazolybutene III with 3-O2NC6H4CH:CAcCO2Et (IV). III was obtained by lithiating 2,4,4-trimethyl-2-oxazoline and reaction with EtCN. IV was prepd. by treating MeCOCH2CO2Et with 3-O2NC6H4CHO.

IT **89082-79-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, with aminoethenyloxazolines and -oxazines)

RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

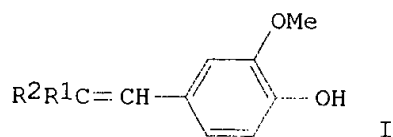


L7 ANSWER 42 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1984:485528 HCAPLUS
 DN 101:85528
 TI Evaluation of ferulic acid derivatives as antifungal agents
 AU Manrao, M. R.; Dhir, B. S.
 CS Dep. Chem., PAU, Ludhiana, India
 SO Pesticides (1984), 18(2), 30, 36

CODEN: PSTDAN; ISSN: 0031-6148

DT
LA
GI

Journal
English



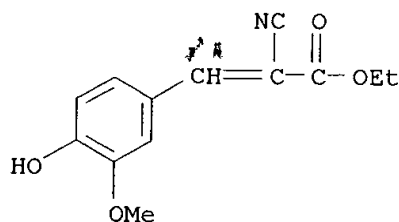
AB The fungicidal activity of 7 ferulic acid derivs. I (R1 = CN, Ac, CO2Et, or CONH2; R2 = CO2H, CO2Et, CN, CONH2, or Ac) against *Alternaria solani*, *A. triticina*, *A. tenuis*, *Puccinia striiformis*, and *P. recondita* depended on their structure. I (R1 = R2 = CO2Et) [24331-83-7] (500-1000 ppm) showed the highest antifungal activity and caused 100% inhibition of spore germination. I (R1 = R2 = CONH2) [91418-46-1] showed poor antifungal activity.

IT 13373-29-0 24331-83-7

RL: BAC (Biological activity or effector, except adverse); BIOL
(Biological study)
(antifungal activity of)

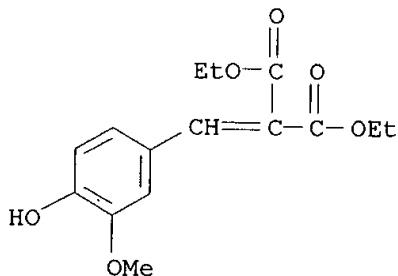
RN 13373-29-0 HCAPLUS

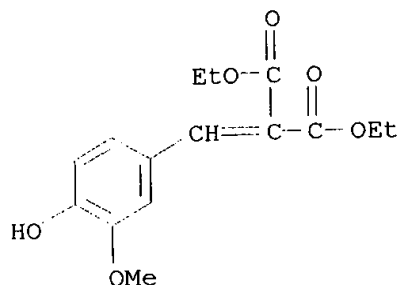
CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
(9CI) (CA INDEX NAME)



RN 24331-83-7 HCAPLUS

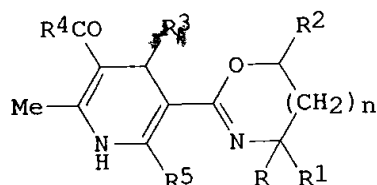
CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester
(9CI) (CA INDEX NAME)



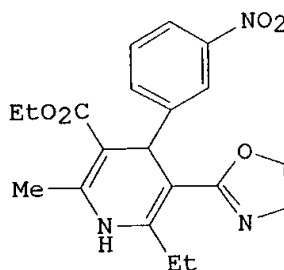


L7 ANSWER 43 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1984:156620 HCAPLUS
 DN 100:156620
 TI Cyclic dihydropyridylimidates
 PA Bristol-Myers Co. , USA
 SO Belg., 46 pp.
 CODEN: BEXXAL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 896727	A1	19831114	BE 1983-210755	19830511
GI					



I

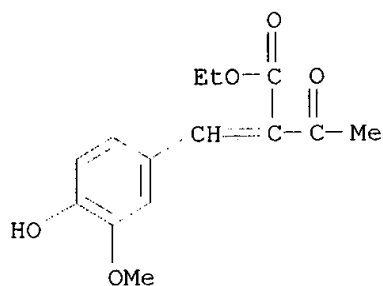


II

AB Pyridylcarboxamides I [R, R1 = alkyl, alkoxyalkyl; R2 = H, alkyl, aryl; R3 = cycloalkyl, bicycloalkenyl, aryl, heteroaryl; R4 = (un)substituted alkyl; R5 = alkyl, Ph, thienyl; n = 0-2] was prepd. for use as Ca channel blockers (no data). Thus 2-methyl-2-oxazoline was treated with EtCN to give 2-amino-1-(4,5-dihydro-2-oxazolyl)-1-butene which was treated with 3-O2NC6H4CH:C(COMe)CO2Et to give II.

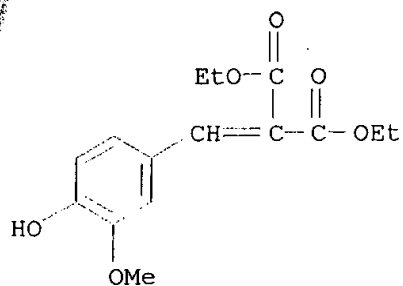
IT **89082-79-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reaction of, with oxazolylalkenes)

RN 89082-79-1 HCAPLUS
 CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

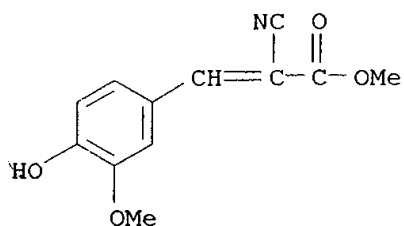


L7 ANSWER 44 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1984:121050 HCAPLUS
 DN 100:121050
 TI Dihydropyridyl cyclic imidate esters and their pharmaceutical use
 IN Poindexter, Graham S.; Temple, David L., Jr.
 PA Mead Johnson and Co., USA
 SO U.S., 10 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

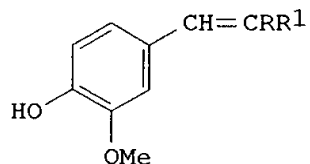
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4414213	A	19831108	US 1982-360758	19820322
	ZA 8302917	A	19840627	ZA 1983-2917	19830426
	CA 1238046	A1	19880614	CA 1983-426767	19830426
	GB 2139212	A1	19841107	GB 1983-11433	19830427
	GB 2139212	B2	19871209		
	JP 59204189	A2	19841119	JP 1983-74179	19830428
	JP 05045595	B4	19930709		
	HU 34471	A2	19850328	HU 1983-1481	19830429
	HU 194216	B	19880128		
	AU 566346	B2	19871015	AU 1983-14260	19830505
	AU 8314260	A1	19841108		
	FR 2545826	A1	19841116	FR 1983-7978	19830513
	FR 2545826	B1	19850823		
	DE 3317691	A1	19841122	DE 1983-3317691	19830516
	CH 654837	A	19860314	CH 1983-2786	19830520
	DD 212516	A5	19840815	DD 1983-251440	19830530
	DD 236732	A5	19860618	DD 1983-263575	19830530
	GB 2185978	A1	19870805	GB 1986-17590	19860718
	GB 2185978	B2	19871209		
	AU 606630	B2	19910214	AU 1987-81943	19871130
	AU 8781943	A1	19880414		
PRAI	US 1982-360758		19820322		
	GB 1983-11433		19830427		
OS	CASREACT 100:121050				
GI					



RN 72955-44-3 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester
 (9CI) (CA INDEX NAME)



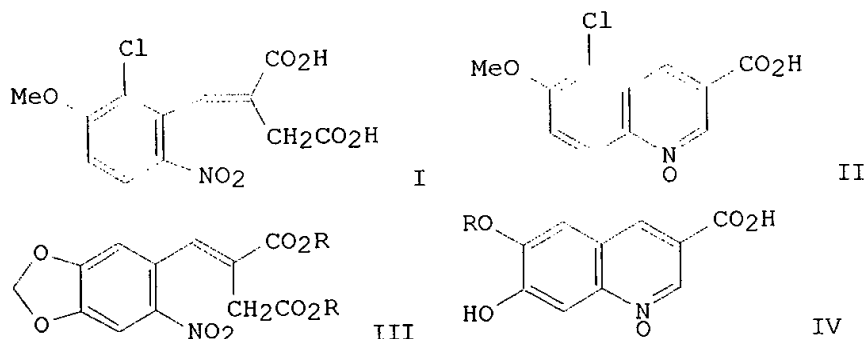
L7 ANSWER 49 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1980:93986 HCAPLUS
 DN 92:93986
 TI Michael reaction of vanillin Schiff bases with active methylene compounds
 AU Rai, Mangat; Kumar, Surinder; Krishan, Kewal; Singh, Ajit
 CS Dep. Chem., Punjabi Univ., Patiala, 147002, India
 SO Indian J. Chem., Sect. B (1979), 17B(3), 287-8
 CODEN: IJSBDB; ISSN: 0376-4699
 DT Journal
 LA English
 GI



I

AB The adduct from the Michael reaction of vanillin anil with CH₂R₁R₂ (R = CN, R₁ = CN, CO₂H, CO₂Et; R = Cl, R₁ = CO₂H) undergoes elimination to give the ferulic acid derivs. I.
 IT 13373-29-0
 RL: RCT (Reactant))

CS Pharm. Fine Chem. Res. Div., Pakistan Counc. Sci. Ind. Res., Karachi, 39,
P. R.
SO Rev. Roum. Chim. (1980), 25(3), 397-402
CODEN: RRCHAX; ISSN: 0035-3930
DT Journal
LA English
GI



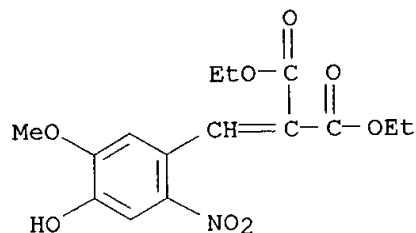
AB I reacts with alkali to give II. III (R = H) with alkali gives intractable tar. III (R = Et) with MeONa or EtONa in the corresponding abs. alcs. gave IV (R = Me, Et), resp. via an unusual simultaneous opening of the methylenedioxy ring with the ring-closure. Mechanisms for the methylenedioxy ring-opening and for the quinoline N-oxide ring closure are described.

IT **75973-88-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., hydrogenation and simultaneous ring closure of)

RN 75973-88-5 HCAPLUS

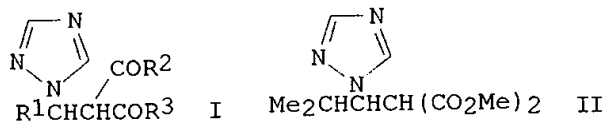
CN Propanedioic acid, [(4-hydroxy-5-methoxy-2-nitrophenyl)methylene]-,
diethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 47 OF 65 HCAPLUS COPYRIGHT 2002 ACS
AN 1980:471786 HCAPLUS
DN 93:71786
TI 1,2,4-Triazole derivatives
IN Mildenberger, Hilmar; Maier, Thomas; Sachse, Burkhard
PA Hoechst A.-G., Fed. Rep. Ger.
SO Ger. Offen., 26 pp.
CODEN: GWXXBX

DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2836945	A1	19800313	DE 1978-2836945	19780824
	ES 483466	A1	19800416	ES 1979-483466	19790817
	EP 8458	A1	19800305	EP 1979-103077	19790822
	R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
	DD 145990	C	19810121	DD 1979-215125	19790822
	AU 7950215	A1	19800228	AU 1979-50215	19790823
	JP 55031093	A2	19800305	JP 1979-106720	19790823
	BR 7905429	A	19800520	BR 1979-5429	19790823
	ZA 7904445	A	19800827	ZA 1979-4445	19790823
PRAI	DE 1978-2836945		19780824		
GI					



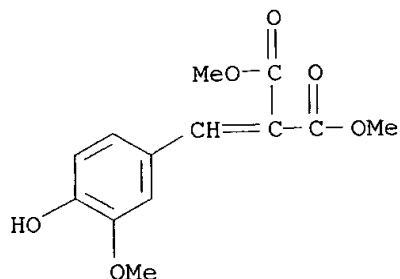
AB Triazoles I [R₁ = C1-12 alkyl, C5-9 cycloalkyl, cycloalkenyl, Ph [optionally substituted with 1-3 alkyl, halo, C1-5 alkoxy, OH, NO₂, di(C1-6 alkyl) amino, methylenedioxy], furanyl, thienyl, pyridyl; R₂, R₃ = C1-12 alkyl, C5-9 cycloalkyl, Ph (optionally substituted with 1-3 C1-12 alkyl, halo, C1-5 alkoxy, OH), C1-12 alkoxy, C5-6 cycloalkoxy, PhCH₂O], useful as agricultural fungicides (extensive data tabulated), were prepd. by addn. reaction of 1,2,4-triazole to R₁CH:C(COR₂)COR₃ in the presence of a basic catalyst. Thus, a mixt. of Me₂CHCH:C(CO₂Me)₂, 1,2,4-triazole, and NEt₃ reacted exothermally (70.degree.) and after 30 min was stirred 7 h at 90.degree. to give 96.65% malonate II.

IT **5854-18-2**

RL: RCT (Reactant)
(addn. reaction of, with triazole)

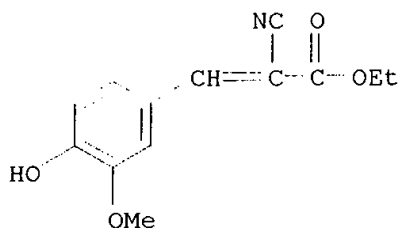
RN 5854-18-2 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, dimethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 48 OF 65 HCAPLUS COPYRIGHT 2002 ACS

13373-29-0 HCAPLUS

2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
(9CI) (CA INDEX NAME)

L7 ANSWER 50 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1979:575136 HCAPLUS

DN 91:175136

TI Anticancer agents XIII. Synthesis and antitumor activity of
2-iminochromene derivatives

AU O'Callaghan, C. N.; Conalty, M. L.

CS Lab. Med. Res. Counc. Ireland, Trinity Coll., Dublin, Ire.

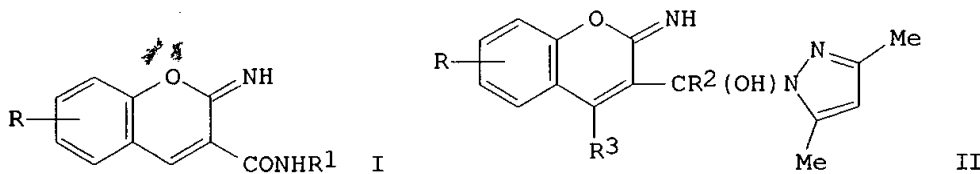
SO Proc. R. Ir. Acad., Sect. B (1979), 79B(6), 87-98

CODEN: PRIBAN; ISSN: 0035-8983

DT Journal

LA English

GI



AB Iminochromenes I (R = H, 6-OMe, 7-OMe, 6-NO₂, 6,8-Br₂, 8-OEt, 8-OMe; R₁ = H, alkyl, hydroxyalkyl, NHCSNHMe, optionally substituted Ph, anilino, acylamino, morpholino) were prepd. by condensing salicylaldehydes with NCCH₂CONHR₁. II (R₂ = OMe, OEt, OPr, R₃ = H; R₂ = H, R₃ = OMe, OEt, OPr) were obtained by condensing salicylaldehydes with 1-cyanoacetyl-3,5-dimethylpyrazole. I, II, and related compds. had antitumor activity. Thus, I (R = 6-OMe, R₁ = H) gave a mean survival time 131% of controls as 108 mg/kg in P 388 lymphocytic leukemia-infected mice.

IT 13229-95-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 13229-95-3 HCAPLUS

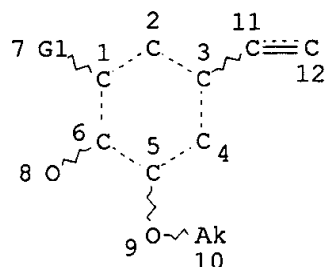
CN 2-Propenoic acid, 2-cyano-3-(3-ethoxy-4-hydroxyphenyl)-, ethyl ester (9CI)
(CA INDEX NAME)

10/022,343

February 19, 2002

=> d que

L1 STR



Ak @13

VAR G1=H/13

NODE ATTRIBUTES:

NSPEC IS RC AT 12
 CONNECT IS E1 RC AT 8
 CONNECT IS E1 RC AT 10
 CONNECT IS E1 RC AT 13
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

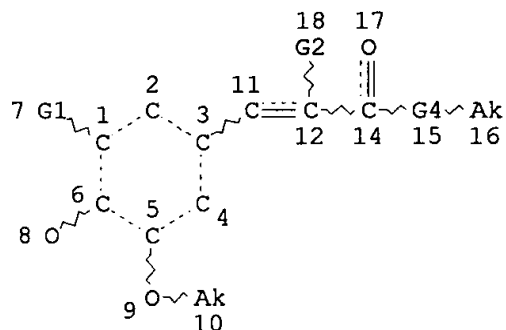
GRAPH ATTRIBUTES:

RSPEC 1
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L3 5750 SEA FILE=REGISTRY SSS FUL L1

L4 STR



Ak @13

O=C~Ak
 19 @20 21

O=C~G3
 22 @23 24

O=C~O~Ak
 25 @26 27 28

NH~Ak
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Ak~N~Ak
 31 @32 33

VAR G1=H/13

VAR G2=20/23/26/CN

VAR G3=NH2/29/32

VAR G4=O/NH

NODE ATTRIBUTES:

NSPEC IS RC AT 12
 CONNECT IS E1 RC AT 8
 CONNECT IS E1 RC AT 10

10/022,343

February 19, 2002

CONNECT IS E1 RC AT 13
CONNECT IS E1 RC AT 16
CONNECT IS E1 RC AT 21
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DEFAULT ECLEVEL IS LIMITED

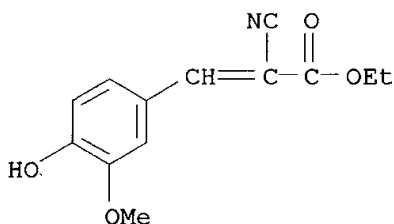
GRAPH ATTRIBUTES:

RSPEC 1
NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L6 31 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L6 65 SEA FILE=HCAPLUS ABB=ON PLU=ON L6

L7 ANSWER 1 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 2001:643812 HCAPLUS
 DN 135:357743
 TI Urotropine: an efficient catalyst precursor for the microwave-assisted Knoevenagel reaction
 AU Peng, Yanqing; Song, Gonghua; Qian, Xuhong
 CS Institute of Pesticides and Pharmaceuticals, East China University of Science and Technology, Shanghai, 200237, Peop. Rep. China
 SO Journal of Chemical Research, Synopses (2001), (5), 188-189
 CODEN: JRPSDC; ISSN: 0308-2342
 PB Science Reviews Ltd.
 DT Journal
 LA English
 AB By using urotropine as a catalyst precursor, a rapid microwave-assisted Knoevenagel reaction of various active methylene compds. with aldehydes gave the corresponding olefinic products with satisfactory yields.
 IT **13373-29-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (urotropine as efficient catalyst precursor for microwave-assisted Knoevenagel reaction)
 RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



~~NO~~ Prior Art
 Date Verification

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 2001:642702 HCAPLUS
 DN 135:357740
 TI An easy-to-use heterogeneous catalyst for the Knoevenagel condensation
 AU Siebenhaar, Bernd; Casagrande, Bruno; Studer, Martin; Blaser, Hans-Ulrich
 CS Solvias AG, Basel, CH-4002, Switz.
 SO Canadian Journal of Chemistry (2001), 79(5/6), 566-569
 CODEN: CJCHAG; ISSN: 0008-4042
 PB National Research Council of Canada
 DT Journal
 LA English
 AB Phys. mixts. of alkali and earth alkali metal carbonates and com. available zeolites were investigated as solid catalysts for the Knoevenagel condensation. Best results for the model reaction between benzaldehyde and Et cyanoacetate were obtained for a 1:4 mixt. of Na2CO3 with 4 .ANG. mol. sieves (MS). The effects of the following parameters were investigated: structure of substrate, type and basicity of metal carbonate and zeolite, and temp. Between 50 and 90.degree.C chem. yields

.gtoreq.90% were obtained without continuous removal of water and with reasonable catalyst activities and reaction times. Na₂CO₃-MS 4 .ANG. proved to be active for the condensation of several aldehydes and ketones with a variety of active methylene components.

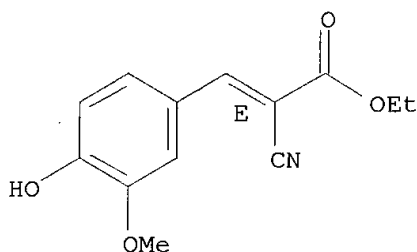
IT 132464-93-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(sodium carbonate-mol.sieves as an easy-to-use heterogeneous catalyst for the Knoevenagel condensation)

RN 132464-93-8 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester,
(2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:653715 HCAPLUS

DN 133:237692

TI Preparation of 3-phenylpropenoic acid or phenylpropenamide derivatives as
Maillard reaction inhibitors

IN Okamoto, Kaoru; Hasegawa, Taisuke; Kuwahara, Kazuo; Nakazawa, Yoshitaka;
Nakamura, Osamu

PA Nippon Zoki Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

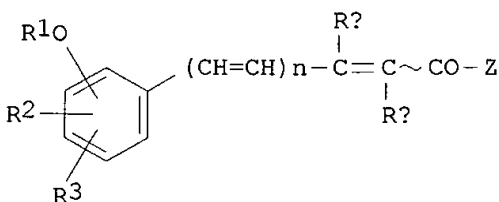
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000256259	A2	20000919	JP 1999-64201	19990311
OS	MARPAT 133:237692				
GI					

102 (a) ?



I

AB The title compds. (I; R1 = H, lower alkyl or alkanoyl; R2, R3 = H, NO2, halo, lower alkyl, HO, lower alkoxy, lower alkoxy-lower alkoxy, lower alkanoyloxy; R.alpha., R.beta. = H, cyano, CO2H, lower alkoxy-carbonyl, optionally HO-substituted phenyl; n = 0,1,2; Z = HO, NH2, hydroxyamino, hydrazino, lower alkylidenehydrazino, guanidino, morpholino, optionally aralkyl-substituted piperazino, lower alkylamino optionally substituted with lower alkoxy, HO, amino, or imidazolyl), pharmacol. acceptable salts, complexes, or hydrates thereof are prepd. These compds. are useful for the prevention or treatment of Maillard reaction-assocd. diseases such as diabetic nephropathy, arteriosclerosis, nerve disorders, retinopathy, diabetes complications (e.g. cataract), diseases accompanied by aging, inflammation, peripheral vascular occlusion, dialysis-related complications, and amyloidosis or prevention of aging. Thus, 4-(3,4-diacetoxybenzylidene)-2-methylxazol-5-one was added to 0.2 N aq. HCl and refluxed for 1 h to give 2-acetylamino-3-(3,4-dihydroxyphenyl)propenoic acid, which in vitro inhibited the dimer formation from lysozyme and glucose by 86.5%.

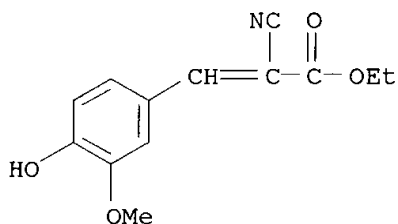
IT **13373-29-0P 24331-83-7P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of phenylpropenoic acid or phenylpropenamide derivs. as Maillard reaction inhibitors and therapeutics)

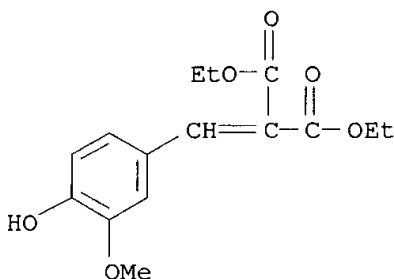
RN 13373-29-0 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
(9CI) (CA INDEX NAME)

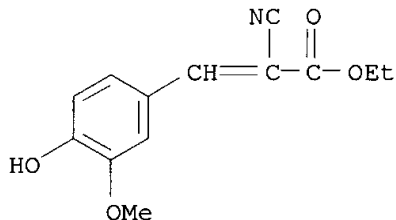


RN 24331-83-7 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester
(9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 2000:269237 HCAPLUS
 DN 132:347648
 TI The reaction of alkyl phosphites with .alpha.,.beta.-unsaturated nitriles, anils and oximes derived from aromatic aldehydes
 AU Mahran, Mohamed Refat H.; Hafez, Taghrid S.; Henary, Maged Mories
 CS Dept. of Pesticide Chemistry, National Research Centre, Cairo, Egypt
 SO Phosphorus, Sulfur Silicon Relat. Elem. (1998), 139, 13-28
 CODEN: PSSLEC; ISSN: 1042-6507
 PB Gordon & Breach Science Publishers
 DT Journal
 LA English
 OS CASREACT 132:347648
 AB Reactions of dialkyl phosphites ((RO)2POH; R = Me, Et) and trialkyl phosphites ((R1O)3P; R = Me, Et) with the .alpha.,.beta.-unsatd. nitriles (ArCH:CR2CN; ArCHO = vanillin, piperonal; R2 = CN, CO2Et) as well as with anils (ArCH:NPh) are reported. Structures of the new phosphonate products were based upon compatible elementary and spectroscopic results. Trialkyl phosphites and PPh3 convert vanillin oxime (3-MeO-4-HOC6H3CH:NOH) into 4-hydroxy-3-methoxybenzonitrile (19). Possible reaction mechanisms to account for formation of some of the products ((RO)2P(O)CH(C6H3OMe-3-OH-4)CHR2CN; (EtO)2P(O)CH(C6H3OMe-3-OEt-4)CHR2CN; 19) were also postulated.
 IT **13373-29-0**, Ethyl 2-cyano-3-(4-hydroxy-3-methoxyphenyl)acrylate
 RL: RCT (Reactant)
 (reactions with alkyl phosphites)
 RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
 (9CI) (CA INDEX NAME)



✓ RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 2000:205484 HCAPLUS
 DN 133:17249
 TI Structural Studies on Bioactive Compounds. 32.Oxidation of Tyrphostin Protein Tyrosine Kinase Inhibitors with Hypervalent Iodine Reagents
 AU Wells, Geoffrey; Seaton, Angela; Stevens, Malcolm F. G.
 CS Cancer Research Laboratories School of Pharmaceutical Sciences, University of Nottingham, Nottingham, NG7 2RD, UK
 SO Journal of Medicinal Chemistry (2000), 43(8), 1550-1562
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB Hydroxylated styrenes (tyrphostins) undergo oxidn. by hypervalent iodine

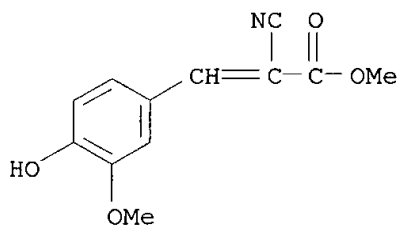
oxidants such as [(diacetoxy)iodo]benzene (DAIB) to give a range of products depending on the structure of the phenolic substrate, the solvent, the oxidant stoichiometry, and the purifn. strategy. Conditions have been developed to modify the phenolic component of the tyrphostin without affecting the appended substituted-vinyl moiety. Novel products include: unstable 2-acyloxy-2-methoxy-4-(substituted-vinyl)cyclohexadienones and their rearrangement products 2-acyloxy-4-hydroxy-3-methoxy-1-(substituted-vinyl)benzenes; phenyliodoniophenolates and their rearrangement products iodophenoxytyrphostins; and 3,3'-dialkoxy-2,2'-dihydroxy-5,5'-di(substituted-vinyl)biphenyls. None of these oxidn. products displayed enhanced activity in vitro in the NCI 60-cell line panel or in a panel of human breast cancer cell lines, compared to their tyrphostin precursors. The inhibitory activity of three representative tyrphostins was not modulated by aerobic/anaerobic conditions in MCF-7 and MDA 468 cells and was independent of EGFR status in clones of ZR75B cells transfected with this receptor. Basal growth of MCF-7 cells was unaffected by co-administration of the growth factors EGF, TGF- α , IGF-I, and IGF-II, and the new agents did not inhibit EGFR and c-erbB2 autophosphorylation in cell lysates from MDA 468 or SkBr3 cells, resp., suggesting that receptor tyrosine kinases are not targets for these compds. Growth stimulation by the tyrphostin, 4-hydroxy-3-nitrobenzylidenemalonitrile, in the ER+ breast cell lines MCF-7, T47D, and ZR75-1 was abolished by 1 μ M tamoxifen, suggesting that this compd. has estrogen agonist activity.

IT **72955-44-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of tyrphostin protein tyrosine kinase inhibitors
with hypervalent iodine reagents)

RN 72955-44-3 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester
(9CI) (CA INDEX NAME)

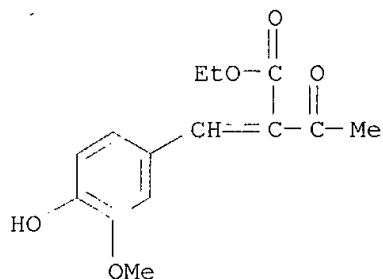


IT **272785-37-2P**

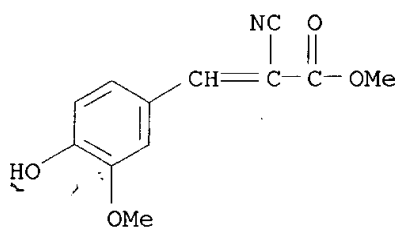
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of tyrphostin protein tyrosine kinase inhibitors
with hypervalent iodine reagents)

RN 272785-37-2 HCAPLUS

CN 2-Propenoic acid, 3-[2-(acetyloxy)-4-hydroxy-3-methoxyphenyl]-2-cyano-,
methyl ester (9CI) (CA INDEX NAME)

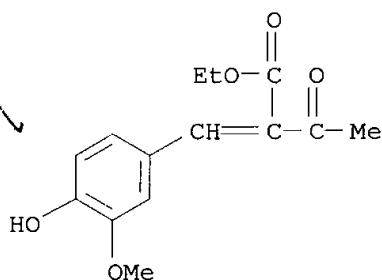


L7 ANSWER 36 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1987:214481 HCAPLUS
 DN 106:214481
 TI The synthesis of polyesters containing a nonrandomly placed highly polar repeating unit
 AU Green, G. David; Weinschenk, Joseph I., III; Mulvaney, J. E.; Hall, H. K., Jr.
 CS Dep. Chem., Univ. Arizona, Tucson, AZ, 85721, USA
 SO Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) (1987), 28(1), 207-8
 CODEN: ACPPAY; ISSN: 0032-3934
 DT Journal
 LA English
 AB Tractable polyesters contg. p-oxy-.alpha.-cyanocinnamate repeating units were prep'd. by polymn. of Me .alpha.-cyanocinnamate derivs. with Me 12-hydroxydodecanoate. The polyesters were cast from CH2Cl2 into flexible transparent thin films which could be stretched to 300% of their original length yielding oriented and cryst. polymers upon heating.
 IT **72955-44-3P 108433-13-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as models for polyesters)
 RN 72955-44-3 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

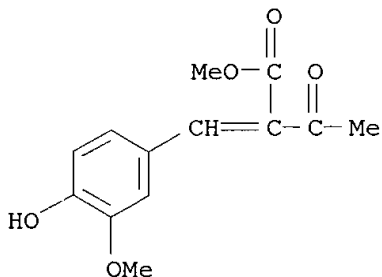


RN 108433-13-2 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxy-5-methylphenyl)-, methyl ester (9CI) (CA INDEX NAME)

L7 ANSWER 16 OF 65 HCAPLUS COPYRIGHT 2002 ACS
AN 1997:79526 HCAPLUS
DN 126:171460
TI Synthesis and biological evaluation of some novel 1,4-dihydropyridines as calcium channel blockers
AU Shirodkar, P.Y.; Varadarajan, S.
CS Department of Pharmaceutical Chemistry, K.M. Kundnani College of Pharmacy, Mumbai, 400 018, India
SO Indian J. Heterocycl. Chem. (1996), 6(2), 155-156
CODEN: IJCHEI; ISSN: 0971-1627
PB Lucknow University, Dep. of Chemistry
DT Journal
LA English
AB Various 1,4-dihydropyridines as analogs of nifedipine were synthesized and evaluated for biol. activity on isolated frog heart.
IT **89082-79-1 187245-33-6 187245-34-7 187245-35-8**
RL: RCT (Reactant)
(prepn. and biol. evaluation of 1,4-dihydropyridines as calcium channel blockers)
RN 89082-79-1 HCAPLUS
CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

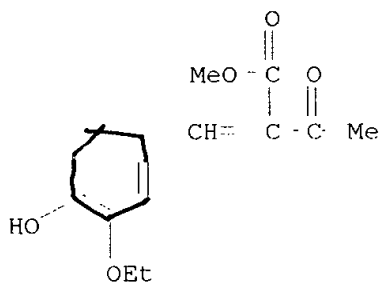


RN 187245-33-6 HCAPLUS
CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, methyl ester (9CI) (CA INDEX NAME)

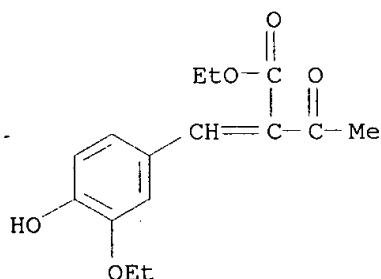


RN 187245-34-7 HCAPLUS
CN Butanoic acid, 2-[(3-ethoxy-4-hydroxyphenyl)methylene]-3-oxo-, methyl ester (9CI) (CA INDEX NAME)

ester (9CI) (CA INDEX NAME)

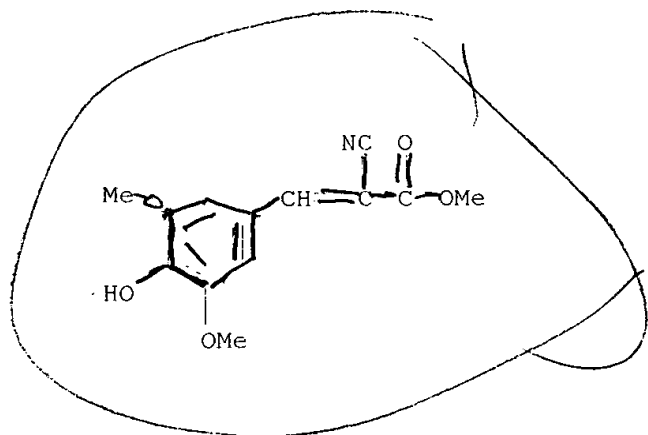


RN 187245-35-8 HCAPLUS
 CN Butanoic acid, 2-[(3-ethoxy-4-hydroxyphenyl)methylene]-3-oxo-, ethyl ester
 (9CI) (CA INDEX NAME)



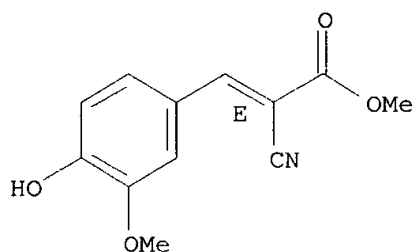
L7 ANSWER 17 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1997:54562 HCAPLUS
 DN 126:171372
 TI Condensation reaction of carbonyl compounds with active methylene compds.
 catalyzed by potassium fluoride on alumina
 AU Gao, Yuan; Shi, Da-Qing; Zhou, Long-Hu; Dai, Gui-Yuan
 CS Dep. Chem., Xuzhou Normal Univ., Xuzhou, 221009, Peop. Rep. China
 SO Youji Huaxue (1996), 16(6), 548-551
 CODEN: YCHHDX; ISSN: 0253-2786
 PB Kexue
 DT Journal
 LA Chinese
 AB Condensation reaction of RCHO (R = Ph, substituted Ph, 2-furyl) with
 R1CH2CN (R1 = CO2Et, CONH2) in the presence of KF-Al2O3, gave 60-95%
 (E)-RCH:CR1CN.
 IT **132464-93-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (condensation reaction of carbonyl compds. with active methylene
 compds. catalyzed by potassium fluoride on alumina)
 RN 132464-93-8 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L7 ANSWER 37 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1987:138824 HCAPLUS
 DN 106:138824
 TI The synthesis of polyesters containing a nonrandomly placed highly polar repeating unit
 AU Green, G. David; Weinschenk, Joseph I., III; Mulvaney, J. E.; Hall, H. K., Jr.
 CS Dep. Chem., Univ. Arizona, Tucson, AZ, 85721, USA
 SO Macromolecules (1987), 20(4), 722-6
 CODEN: MAMOBX; ISSN: 0024-9297
 DT Journal
 LA English
 AB Polyesters contg. p-oxyalkoxy-.alpha.-cyanocinnamate repeating units were prep'd. by a 2-stage high-temp. polymn. of Me 12-hydroxydodecanoate [71655-36-2] with monomers prep'd. from .omega.-hydroxyalkoxy-substituted benzaldehydes with Me cyanoacetate [105-34-0]. The polyesters were soln.- and melt-processable.
 IT **107115-19-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and characterization of, as model polyester)
 RN 107115-19-5 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L7 ANSWER 38 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1986:562261 HCAPLUS
 DN 105:162261
 TI Photosensitive polymers
 IN Nakamura, Chiaki; Koe, Koji; Sasaki, Toshiki
 PA Dainippon Ink and Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.

L7 ANSWER 20 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:485738 HCAPLUS

DN 125:142267

TI Preparation of (hydroxyaryl)alkenone salts as electrodeposition and electroplating brightening agents

IN Wehlage, Thomas; Schroeder, Ulrich; Oftring, Alfred

PA BASF A.-G., Germany

SO Ger. Offen., 21 pp.

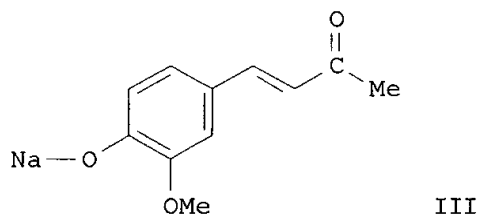
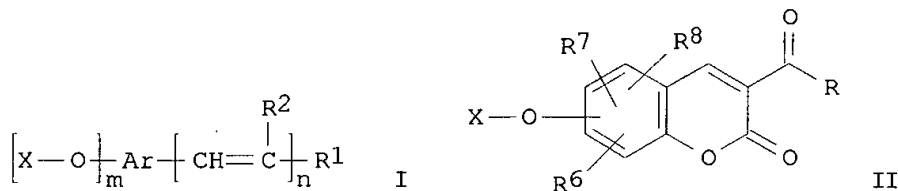
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4446329	A1	19960627	DE 1994-4446329	19941223
	WO 9620152	A1	19960704	WO 1995-EP5090	19951222
	W: AU, CA, CN, JP, KR, RU, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2208723	AA	19960704	CA 1995-2208723	19951222
	AU 9644332	A1	19960719	AU 1996-44332	19951222
	EP 799175	A1	19971008	EP 1995-943187	19951222
	EP 799175	B1	19981014		
	R: CH, DE, ES, FR, GB, IT, LI, NL				
	JP 10511739	T2	19981110	JP 1995-520199	19951222
	ES 2124037	T3	19990116	ES 1995-943187	19951222
	US 5951841	A	19990914	US 1997-860301	19971006
PRAI	DE 1994-4446329		19941223		
	WO 1995-EP5090		19951222		
OS	MARPAT 125:142267				
GI					



AB (Hydroxyaryl)alkenone salts I ($m = \text{integer} \geq 1$; Ar = phenylene, naphthylene; $n = 0-1$; R1 = cyano, acyl; R2 = H, alkyl, etc.; X = alkali metal ion, ammonium, etc.). More narrowly defined, these compds. are represented by the acyl(hydroxy)benzofuranone salts II (X = alkali metal

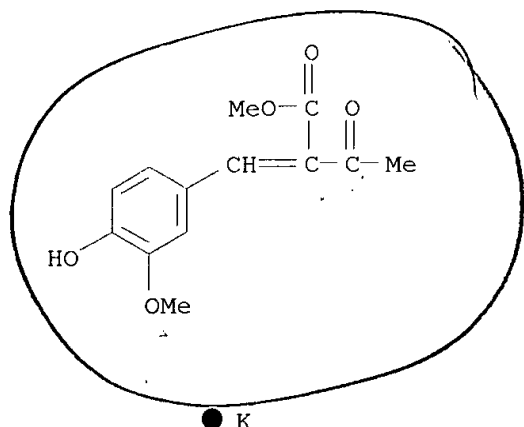
ion, ammonium, etc.; R3 = alkoxy alkyl; R6-R8 = alkyl) (no data). The use of I and II as electroplating brightening agents was claimed. An example compd. is the sodium salt of vanillidenacetone (III).

IT **179752-05-7P**

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(prepn. of (hydroxyaryl)alkenone salts as electrodeposition and electroplating brightening agents)

RN 179752-05-7 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, methyl ester, potassium salt (9CI) (CA INDEX NAME)



L7 ANSWER 21 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:334269 HCAPLUS

DN 125:33274

TI Knoevenagel condensation catalyzed by potassium fluoride

AU Dai, Guiyuan; Shi, Daqing; Zhou, Longhu

CS Dep. Chem., Xuzhou Teachers Coll., Xuzhou, 221009, Peop. Rep. China

SO Huaxue Shiji (1996), 18(1), 39-40

CODEN: HUSHDR; ISSN: 0258-3283

DT Journal

LA Chinese

AB Knoevenagel condensation of RCHO (R = Ph, substituted Ph, furyl) with Et cyanoacetate in EtOH in the presence of potassium fluoride gave 80-90% (E)-RCH:C(CN)CO2Et.

IT **132464-93-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(Knoevenagel condensation catalyzed by potassium fluoride)

RN 132464-93-8 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

derivatives, their manufacture, and pharmaceutical compositions containing them, useful as antihypertensives and cardiovascular agents

PA Bristol-Myers Co., USA

SO Israeli, 38 pp.

CODEN: ISXXAQ

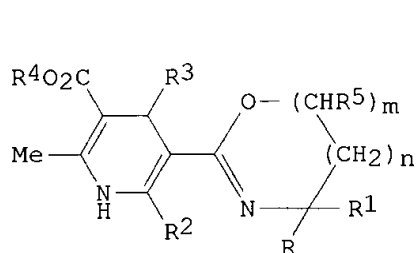
DT Patent

LA English

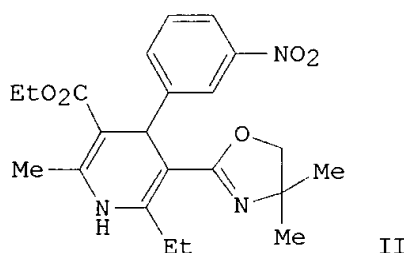
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IL 68512	A1	19860731	IL 1983-68512	19830427
	IL 77435	A1	19860731	IL 1983-77435	19830427
	IL 77436	A1	19860731	IL 1983-77436	19830427
PRAI	IL 1983-68512		19830427		

GI



I



II

AB The title compds., cyclic derivs. of dihydropyridinecarboximidic acid, [I; R, R1 = H, C1-4 alkyl, alkoxyalkyl; R2 = alkyl, Ph, thienyl; R3 = C5-7 cycloalkyl, C7-9 bicycloalkenyl, naphthyl, furanyl, indolyl, pyridinyl, thienyl, (un)substituted Ph; R4 = (un)substituted alkyl; R5 = alkyl, naphthyl, (un)substituted Ph; m = 0, 1; n = 0-2; m + n = 1, 2] were prepd. as Ca ion channel blockers (no data), useful as antihypertensives and cardiovascular agents. 2,4,4-Trimethyl-2-oxazoline was lithiated and condensed with EtCN to give 2-(2-amino-1-butenyl)-4,4-dimethyl-2-oxazoline. The latter was cyclocondensed with 3-O2NC6H4CH:C(OMe)CO2Et, prepd. by condensation of 3-O2NC6H4CHO with MeCOCH2CO2Et, to give dihydro(oxazolinyl)pyridinecarboxylate II.

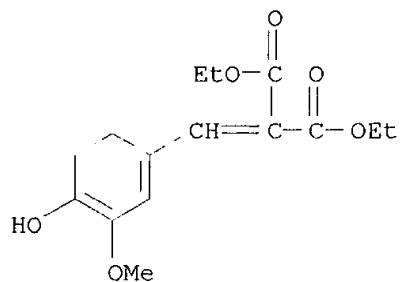
IT **89082-79-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclocondensation of, with oxazoly- and oxazinylethenamines)

RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

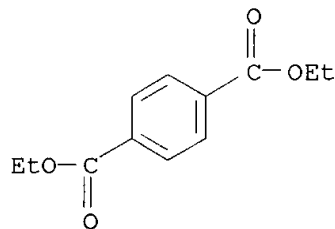
CMF C15 H18 O6



CM 3

CRN 636-09-9

CMF C12 H14 O4



CM 4

CRN 107-21-1

CMF C2 H6 O2

HO-CH₂-CH₂-OH

L7 ANSWER 39 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1986:109238 HCAPLUS

DN 104:109238

TI Acetylpropenoate intermediate products

IN Poindexter, Graham S.; Temple, Davis L., Jr.

PA Bristol-Myers Co., USA

SO Ger. (East), 10 pp.

CODEN: GEXXA8

DT Patent

LA German

FAN.CNT 1

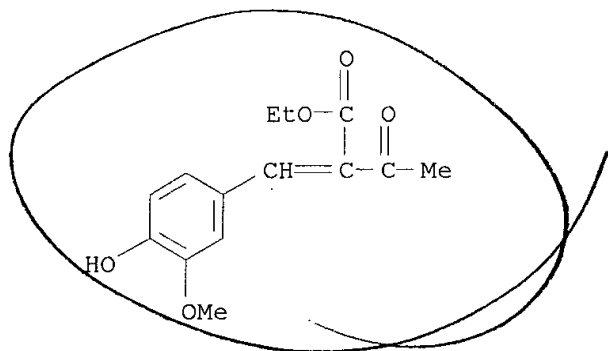
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 219763	A5	19850313	DD 1983-263576	19830530

AB Eighteen MeCOC(:CHR1)CO2R2 [I; R1 = cycloalkyl, bicycloalkyl, heteroaryl, (un)substituted Ph; R2 = (un)substituted alkyl] were prepd. by Knoevenagel condensation of R1CHO with MeCOCH2CO2R2 in C6H6 in the presence of pyridine and HOAc. I are intermediates for prepn. of 1,4-dihydro-3,5-pyridinedicarboxylate pharmaceuticals.

IT **89082-79-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 40 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1986:88595 HCAPLUS

DN 104:88595

TI Dihydropyridinyldicarboxylic acid piperazinyll derivatives and a pharmaceutical agent containing them

IN Poindexter, Graham S.; Temple, Davis L.

PA Bristol-Myers Co. , USA

SO Ger. Offen., 62 pp.
 CODEN: GWXXBX

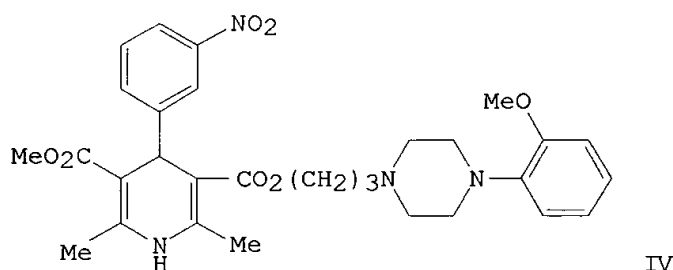
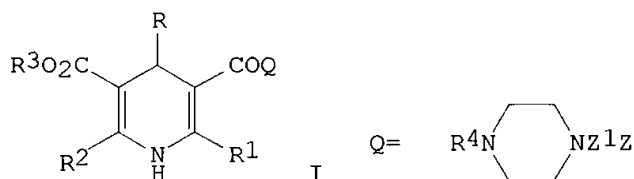
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3512995	A1	19851017	DE 1985-3512995	19850411
	US 4755512	A	19880705	US 1985-693426	19850122
	FI 8501404	A	19851012	FI 1985-1404	19850409
	FI 84063	B	19910628		
	FI 84063	C	19911010		
	AU 8540949	A1	19851017	AU 1985-40949	19850409
	AU 587182	B2	19890810		
	ZA 8502625	A	19851127	ZA 1985-2625	19850409
	CA 1320204	A1	19930713	CA 1985-478537	19850409
	BE 902154	A1	19851010	BE 1985-214816	19850410
	DK 8501624	A	19851012	DK 1985-1624	19850410
	DK 164594	B	19920720		
	DK 164594	C	19921207		
	NL 8501046	A	19851101	NL 1985-1046	19850410
	SE 8501767	A	19851120	SE 1985-1767	19850410
	SE 465220	B	19910812		
	SE 465220	C	19911205		

ES 542120	A1	19860616	ES 1985-542120	19850410
FR 2562892	A1	19851018	FR 1985-5475	19850411
FR 2562892	B1	19890616		
GB 2158065	A1	19851106	GB 1985-9250	19850411
GB 2158065	B2	19880525		
JP 61017562	A2	19860125	JP 1985-77517	19850411
JP 63039588	B4	19880805		
CH 664757	A	19880331	CH 1985-1556	19850411
AT 8501091	A	19881115	AT 1985-1091	19850411
AT 388375	B	19890612		
ES 551564	A1	19871201	ES 1986-551564	19860201
JP 62174051	A2	19870730	JP 1986-251577	19861022
JP 62223170	A2	19871001	JP 1986-251578	19861022
JP 05003850	B4	19930118		
US 4895846	A	19900123	US 1987-134715	19871218
PRAI US 1984-599097		19840411		
US 1985-693426		19850122		
OS CASREACT 104:88595				
GI				



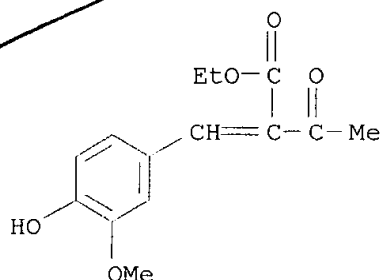
AB The title compds. [I: R = cycloalkyl, bicycloalkenyl, aryl, heteroaryl; R1, R2 = (un)substituted alkyl; R3 = R1, Q; R4 = (un)substituted Ph, pyridinyl, pyrimidinyl; Z = O, NH; Z1 = alkylene, optionally contg. O, S, or NH] were prepd. Thus, Cl(CH2)3OH was esterified with diketene to give 82% MeCOCH2CO2(CH2)3Cl (II). 3-O2NC6H4CHO was condensed with MeCOCH2CO2Me to give 82% 3-O2NC6H4CH:C(COMe)CO2Me (III). II and III were refluxed in EtOH with NH4OAc to give 99% I [R = 3-O2NC6H4, R1-R3 = Me, Q = Cl(CH2)3O] which was refluxed with 1-(2-methoxyphenyl)piperazine in MeCN contg. Et3N and a catalytic amt. of KI to give 17% piperazinylpropyl ester IV. IV was equal or superior to nifedipine as a calcium blocker and as an .alpha.-adrenergic blocker in std. in vivo and in vitro tests.

IT **89082-79-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclocondensation of, with acetoacetates and ammonium acetate)

RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 41 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1985:149254 HCAPLUS

DN 102:149254

TI Dihydropyridyl cyclic imide esters, cyclic imide ester amines, acetyl cinnamate compounds, and pharmaceutical preparations for treating cardiovascular disorders in mammals

PA Bristol-Myers Co. , USA

SO Neth. Appl., 30 pp.

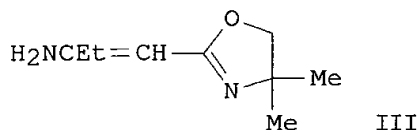
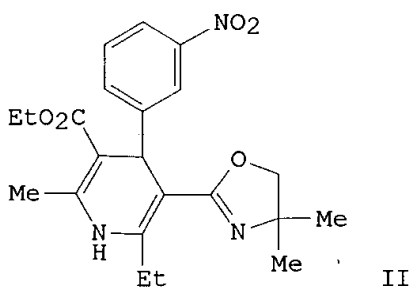
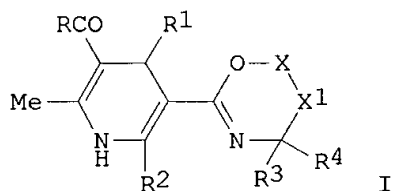
CODEN: NAXXAN

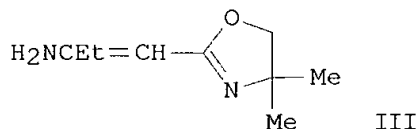
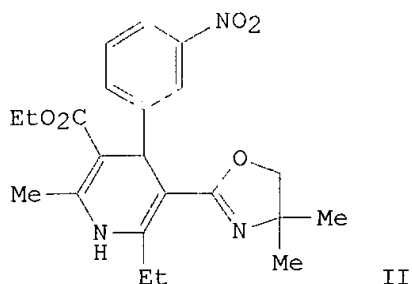
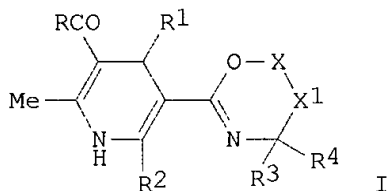
DT Patent

LA Dutch

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 8301672	A	19841203	NL 1983-1672	19830510
	AT 377259	B	19850225	AT 1983-1814	19830517
	AT 8301814	A	19840715		
PRAI	NL 1983-1672		19830510		
OS	CASREACT 102:149254				
GI					





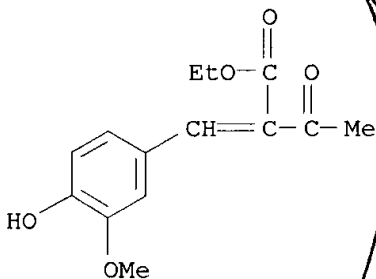
AB The title compds. I (X = bond, R5CH; X1 = bond, CH2, CH2CH2; R = alkyl, alkoxyalkyl, aminoalkyl, haloalkyl; R1 = cycloalkyl, bicycloalkenyl, heteroaryl, aryl; R2 = alkyl, Ph, thienyl; R3, R4 = alkyl, alkoxyalkyl; R5 = alkyl, aryl) were prepd. for use as Ca channel blockers and antihypertensives (no data). Thus, II was obtained by treating the oxazolybutene III with 3-O2NC6H4CH:CAcCO2Et (IV). III was obtained by lithiating 2,4,4-trimethyl-2-oxazoline and reaction with EtCN. IV was prepd. by treating MeCOCH2CO2Et with 3-O2NC6H4CHO.

IT **89082-79-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with aminoethenylloxazolines and -oxazines)

RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 42 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1984:485528 HCAPLUS

DN 101:85528

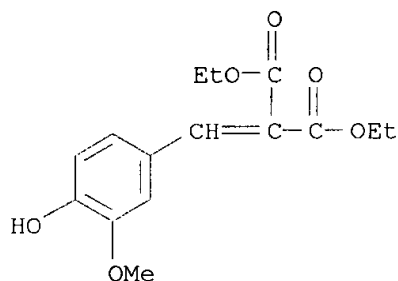
TI Evaluation of ferulic acid derivatives as antifungal agents

AU Manrao, M. R.; Dhir, B. S.

CS Dep. Chem., PAU, Ludhiana, India

SO Pesticides (1984), 18(2), 30, 36

Chin (6)



L7 ANSWER 43 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1984:156620 HCAPLUS

DN 100:156620

TI Cyclic dihydropyridylimidates

PA Bristol-Myers Co. , USA

SO Belg., 46 pp.

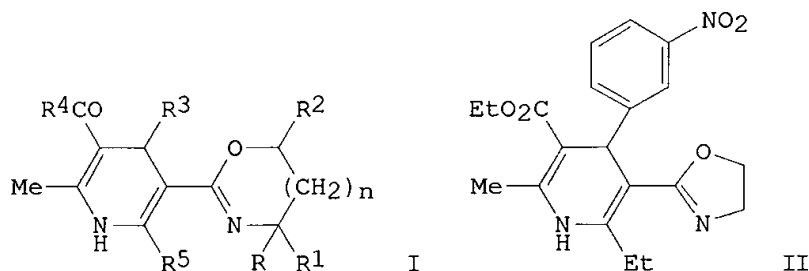
CODEN: BEXXAL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 896727	A1	19831114	BE 1983-210755	19830511
GI					



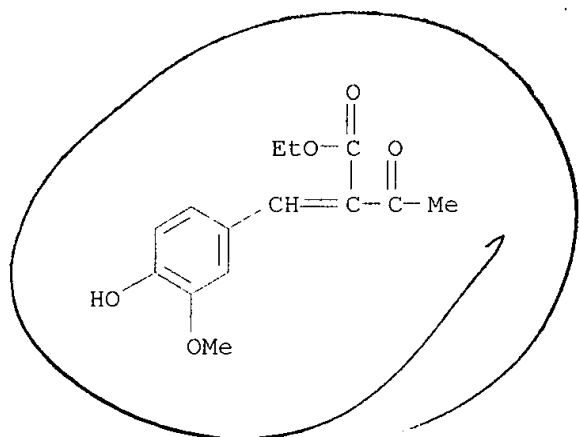
AB Pyridylcarboxamides I [R, R1 = alkyl, alkoxyalkyl; R2 = H, alkyl, aryl; R3 = cycloalkyl, bicycloalkenyl, aryl, heteroaryl; R4 = (un)substituted alkyl; R5 = alkyl, Ph, thienyl; n = 0-2] was prepd. for use as Ca channel blockers (no data). Thus 2-methyl-2-oxazoline was treated with EtCN to give 2-amino-1-(4,5-dihydro-2-oxazolyl)-1-butene which was treated with 3-O2NC6H4CH:C(COMe)CO2Et to give II.

IT **89082-79-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with oxazolylalkenes)

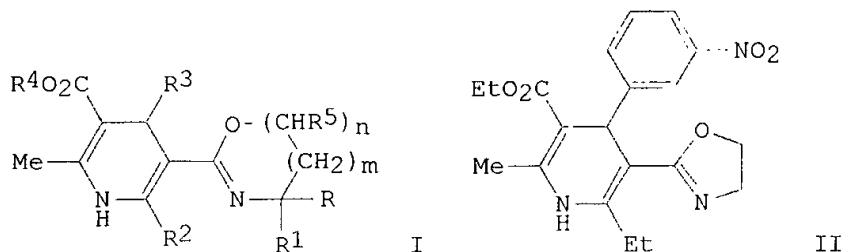
RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 44 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1984:121050 HCAPLUS
 DN 100:121050
 TI Dihydropyridyl cyclic imide esters and their pharmaceutical use
 IN Poindexter, Graham S.; Temple, David L., Jr.
 PA Mead Johnson and Co., USA
 SO U.S., 10 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4414213	A	19831108	US 1982-360758	19820322
	ZA 8302917	A	19840627	ZA 1983-2917	19830426
	CA 1238046	A1	19880614	CA 1983-426767	19830426
	GB 2139212	A1	19841107	GB 1983-11433	19830427
	GB 2139212	B2	19871209		
	JP 59204189	A2	19841119	JP 1983-74179	19830428
	JP 05045595	B4	19930709		
	HU 34471	A2	19850328	HU 1983-1481	19830429
	HU 194216	B	19880128		
	AU 566346	B2	19871015	AU 1983-14260	19830505
	AU 8314260	A1	19841108		
	FR 2545826	A1	19841116	FR 1983-7978	19830513
	FR 2545826	B1	19850823		
	DE 3317691	A1	19841122	DE 1983-3317691	19830516
	CH 654837	A	19860314	CH 1983-2786	19830520
	DD 212516	A5	19840815	DD 1983-251440	19830530
	DD 236732	A5	19860618	DD 1983-263575	19830530
	GB 2185978	A1	19870805	GB 1986-17590	19860718
	GB 2185978	B2	19871209		
	AU 606630	B2	19910214	AU 1987-81943	19871130
	AU 8781943	A1	19880414		
PRAI	US 1982-360758		19820322		
	GB 1983-11433		19830427		
OS	CASREACT 100:121050				
GI					



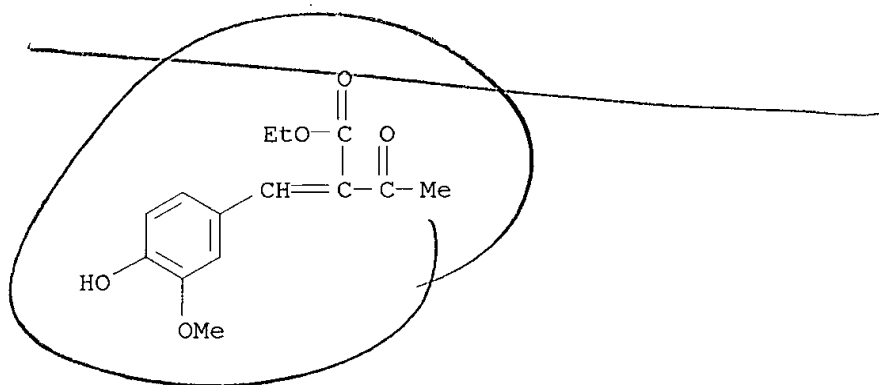
AB Vasodilator and Ca channel blocking (no data) pyridinecarboxylates I [R, R1 = H, alkyl, alkoxyalkyl; R2 = alkyl, Ph, thienyl; R3 = cycloalkyl, bicycloalkenyl, naphthyl, heterocyclyl, (un)substituted Ph; R4 = (un)substituted alkyl; R5 = alkyl, aryl; n = 0, 1; m = 0-2] were prepd. Thus, 2-methyl-2-oxazoline was lithiated and condensed with EtCN to give 70% 1-(4,5-dihydro-2-oxazolyl)-1-buten-2-amine. This was cyclocondensed with 3-O2NC6H4CH:C(COMe)CO2Et (prepd. by condensation of 3-O2NC6H4CHO with MeCOCH2CO2Et) to give 82% oxazolylpyridinecarboxylate II.

IT **89082-79-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and cyclocondensation of, with oxazolylalkenamines)

RN 89082-79-1 HCAPLUS

CN Butanoic acid, 2-[(4-hydroxy-3-methoxyphenyl)methylene]-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 45 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1983:594854 HCAPLUS

DN 99:194854

TI Antiulcer activity of 5-benzylthiazolidine-2,4-dione derivatives

AU Sohda, Takashi; Mizuno, Katsutoshi; Hirata, Takeo; Maki, Yoshitaka; Kawamatsu, Yutaka

CS Cent. Res. Div., Takeda Chem. Ind. Ltd., Osaka, 532, Japan

SO Chem. Pharm. Bull. (1983), 31(2), 560-9

CODEN: CPBTAL; ISSN: 0009-2363

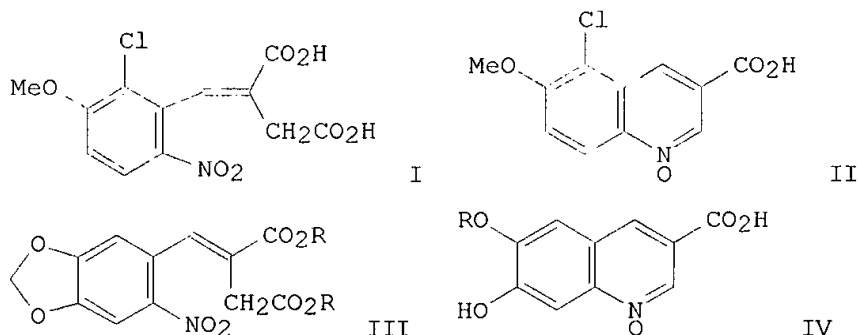
DT Journal

LA English

OS CASREACT 99:194854

GI

CS Pharm. Fine Chem. Res. Div., Pakistan Counc. Sci. Ind. Res., Karachi, 39,
P. R.
SO Rev. Roum. Chim. (1980), 25(3), 397-402
CODEN: RRCHAX; ISSN: 0035-3930
DT Journal
LA English
GI



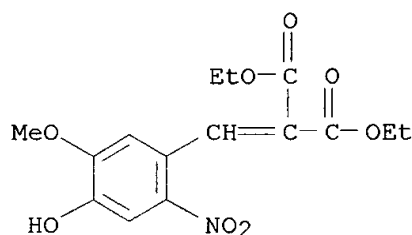
AB I reacts with alkali to give II. III (R = H) with alkali gives intractable tar. III (R = Et) with MeONa or EtONa in the corresponding abs. alcs. gave IV (R = Me, Et), resp. via an unusual simultaneous opening of the methylenedioxy ring with the ring-closure. Mechanisms for the methylenedioxy ring-opening and for the quinoline N-oxide ring closure are described.

IT 75973-88-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., hydrogenation and simultaneous ring closure of)

RN 75973-88-5 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-5-methoxy-2-nitrophenyl)methylene]-, diethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 47 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1980:471786 HCAPLUS

DN 93:71786

TI 1,2,4-Triazole derivatives

IN Mildenberger, Hilmar; Maier, Thomas; Sachse, Burkhard

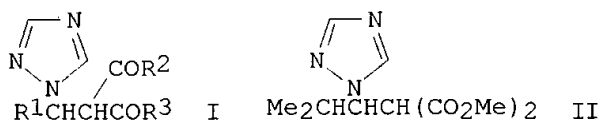
PA Hoechst A.-G., Fed. Rep. Ger.

SO Ger. Offen., 26 pp.

CODEN: GWXXBX

DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2836945	A1	19800313	DE 1978-2836945	19780824
	ES 483466	A1	19800416	ES 1979-483466	19790817
	EP 8458	A1	19800305	EP 1979-103077	19790822
	R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
	DD 145990	C	19810121	DD 1979-215125	19790822
	AU 7950215	A1	19800228	AU 1979-50215	19790823
	JP 55031093	A2	19800305	JP 1979-106720	19790823
	BR 7905429	A	19800520	BR 1979-5429	19790823
	ZA 7904445	A	19800827	ZA 1979-4445	19790823
PRAI	DE 1978-2836945		19780824		
GI					



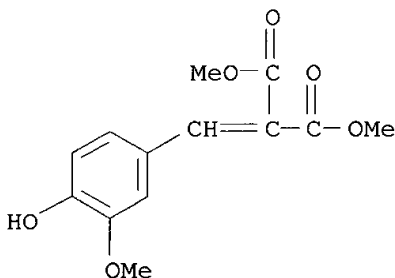
AB Triazoles I [R1 = C1-12 alkyl, C5-9 cycloalkyl, cycloalkenyl, Ph [optionally substituted with 1-3 alkyl, halo, C1-5 alkoxy, OH, NO2, di(C1-6 alkyl) amino, methylenedioxy], furanyl, thienyl, pyridyl; R2, R3 = C1-12 alkyl, C5-9 cycloalkyl, Ph (optionally substituted with 1-3 C1-12 alkyl, halo, C1-5 alkoxy, OH), C1-12 alkoxy, C5-6 cycloalkoxy, PhCH2O], useful as agricultural fungicides (extensive data tabulated), were prepd. by addn. reaction of 1,2,4-triazole to R1CH:C(COR2)COR3 in the presence of a basic catalyst. Thus, a mixt. of Me2CHCH:C(CO2Me)2, 1,2,4-triazole, and NEt3 reacted exothermally (70.degree.) and after 30 min was stirred 7 h at 90.degree. to give 96.65% malonate II.

IT **5854-18-2**

RL: RCT (Reactant)
(addn. reaction of, with triazole)

RN 5854-18-2 HCAPLUS

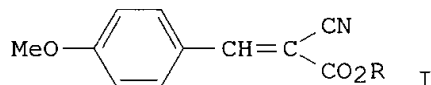
CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, dimethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 48 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1980:116437 HCAPLUS
 DN 92:116437
 TI Light-protective composition containing 4-methoxybenzylidenecyanoacetic acid esters
 IN Preuss, Reinhard; Charlet, Egbert; Finkel, Peter; Rosenkranz, Hans Juergen
 PA Bayer A.-G., Fed. Rep. Ger.
 SO Ger. Offen., 23 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2816819	A1	19791031	DE 1978-2816819	19780418
	US 4284621	A	19810818	US 1979-24742	19790328
	EP 5182	A1	19791114	EP 1979-101050	19790406
	EP 5182	B1	19810729		
	R: BE, CH, DE, FR, GB, IT, NL, SE				
	DK 7901563	A	19791019	DK 1979-1563	19790417
	AT 7902844	A	19810115	AT 1979-2844	19790417
	AT 363603	B	19810825		
PRAI	DE 1978-2816819		19780418		
GI					



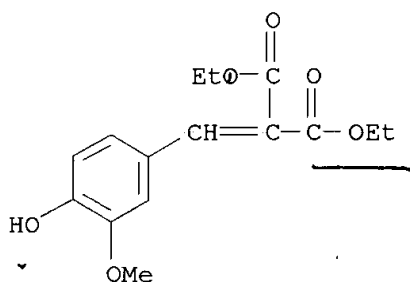
AB Light-protective agents against UV of 320-400 nm contained the title compds. I (R = hexyl) [33892-41-0], I (R = octyl) [72955-52-3], I (R = decyl) [41607-83-4], I (R = isononyl) [38722-93-9], or I (R = isodecyl) [72892-43-4]. These compns. may also contain 5-methyl-2-phenylbenzoxazole, 2-phenyl-5-benzimidazolesulfonic acid, or isoamyl 4-methoxycinnamate [71617-10-2], which protect against UV of 285-320 nm. Thus, a sun-protective oil contained I (R = octyl) 2, isoamyl 4-methoxycinnamate 2, peanut oil 46, paraffin oil 50%, and perfume oil.

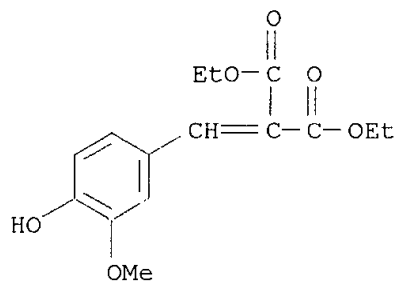
IT **24331-83-7 72955-44-3**

RL: BIOL (Biological study)
 (potential sunscreen, UV absorption of)

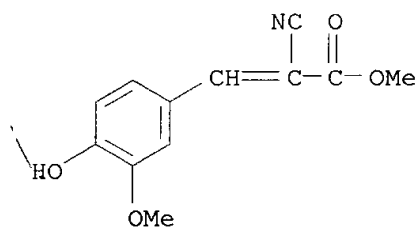
RN 24331-83-7 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester (9CI) (CA INDEX NAME)

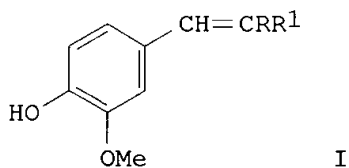




RN 72955-44-3 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, methyl ester
 (9CI) (CA INDEX NAME)

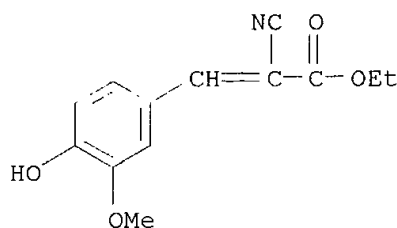


L7 ANSWER 49 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1980:93986 HCAPLUS
 DN 92:93986
 TI Michael reaction of vanillin Schiff bases with active methylene compounds
 AU Rai, Mangat; Kumar, Surinder; Krishan, Kewal; Singh, Ajit
 CS Dep. Chem., Punjabi Univ., Patiala, 147002, India
 SO Indian J. Chem., Sect. B (1979), 17B(3), 287-8
 CODEN: IJSBDB; ISSN: 0376-4699
 DT Journal
 LA English
 GI

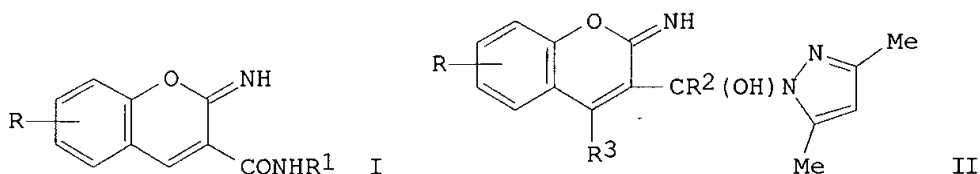


AB The adduct from the Michael reaction of vanillin anil with CH₂RR₁ (R = CN, R₁ = CN, CO₂H, CO₂Et; R = Cl, R₁ = CO₂H) undergoes elimination to give the ferulic acid derivs. I.
 IT **13373-29-0**
 RL: RCT (Reactant))

RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
 (9CI) (CA INDEX NAME)

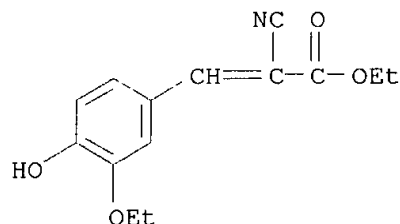


L7 ANSWER 50 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1979:575136 HCAPLUS
 DN 91:175136
 TI Anticancer agents XIII. Synthesis and antitumor activity of
 2-iminochromene derivatives
 AU O'Callaghan, C. N.; Conalty, M. L.
 CS Lab. Med. Res. Counc. Ireland, Trinity Coll., Dublin, Ire.
 SO Proc. R. Ir. Acad., Sect. B (1979), 79B(6), 87-98
 CODEN: PRIBAN; ISSN: 0035-8983
 DT Journal
 LA English
 GI



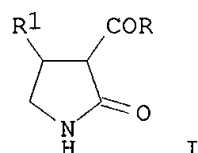
AB Iminochromenes I (R = H, 6-OMe, 7-OMe, 6-NO2, 6,8-Br2, 8-OEt, 8-OMe; R1 = H, alkyl, hydroxyalkyl, NHCSNHMe, optionally substituted Ph, anilino, acylamino, morpholino) were prepd. by condensing salicylaldehydes with NCCH2CONHR1. II (R2 = OMe, OEt, OPr, R3 = H; R2 = H, R3 = OMe, OEt, OPr) were obtained by condensing salicylaldehydes with 1-cyanoacetyl-3,5-dimethylpyrazole. I, II, and related compds. had antitumor activity. Thus, I (R = 6-OMe, R1 = H) gave a mean survival time 131% of controls as 108 mg/kg in P 388 lymphocytic leukemia-infected mice.

IT **13229-95-3P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 13229-95-3 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(3-ethoxy-4-hydroxyphenyl)-, ethyl ester (9CI)
 (CA INDEX NAME)



L7 ANSWER 51 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1978:50643 HCAPLUS
 DN 88:50643
 TI 4-(Polyalkoxyphenyl)-2-pyrrolidinones
 PA Schering A.-G., Fed. Rep. Ger.
 SO Fr. Demande, 28 pp. Addn. to Fr. 2,264,531.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2324299	A2	19770415	FR 1976-27961	19760917
	FR 2324299	B2	19800201		
	DE 2541855	A1	19770331	DE 1975-2541855	19750918
PRAI	DE 1975-2541855		19750918		
GI					

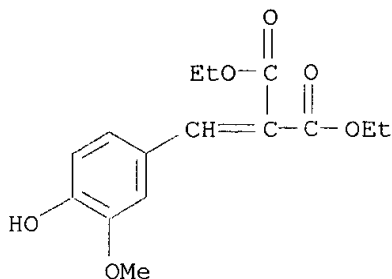


AB Pyrrolidones I [R = OEt, OCH₂Ph, NH₂, NHMe, NHCHMe₂, NHPh, NMeCH₂Ph, R₁ = 3,4-(MeO)₂C₆H₃] were prepd. by substitution in 4-(3,4-dimethoxyphenyl)-2-pyrrolidinone. I [R = OEt, R₁ = 3,4-HO(MeO)C₆H₃, 3,4-MeO(AcO)C₆H₃, 2,3,4-(MeO)₃C₆H₂, 3,4,6-(MeO)₃C₆H₂] were prepd. by treating R₁CHO with CH₂(CO₂Et)₂, treating R₁CH:C(CO₂Et)₂ with MeNO₂, and reducing all R₁CH(CH₂NO₂)CH(CO₂Et)₂. R₁CH(CH₂NH₂)CH₂COR (R = OEt, OH) were obtained by treating R₁CH:C(CO₂Et)₂ with HCN and reducing R₁CH(CN)CH₂COR.

IT **24331-83-7P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and acetylation of)

RN 24331-83-7 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester
 (9CI) (CA INDEX NAME)



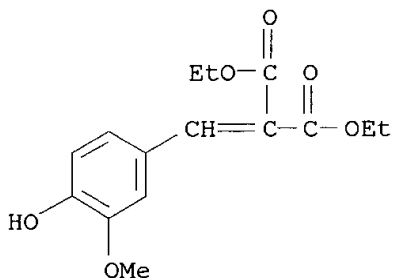
L7 ANSWER 52 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1977:534644 HCAPLUS
 DN 87:134644
 TI 3-Methoxy-4-(.beta.-hydroxyethoxy)cinnamic acid
 IN Thuillier, Germaine
 PA Centre Europeen de Recherche Pharmacologiques (CERPHA), Fr.
 SO Fr. Demande, 5 pp.
 CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

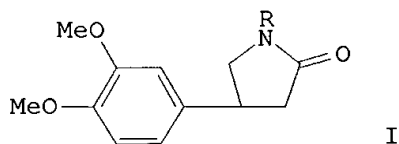
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2306968	A1	19761105	FR 1975-11028	19750409
	JP 52031042	A2	19770309	JP 1976-6336	19760121
PRAI	FR 1975-11028		19750409		
AB	Vanillin was condensed with CH ₂ (CO ₂ Et) ₂ , and the product was saponified, O-alkylated by ClCH ₂ CH ₂ OH, and decarboxylated to yield cinametic acid [3,4-MeO(HOCH ₂ CH ₂ O)C ₆ H ₃ CH:CHCO ₂ H], which is useful in bile regulation (no data).				
IT	24331-83-7P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and O-alkylation of, by 2-chloroethanol)				
RN	24331-83-7 HCAPLUS				
CN	Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester (9CI) (CA INDEX NAME)				



L7 ANSWER 53 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1977:439271 HCAPLUS
 DN 87:39271

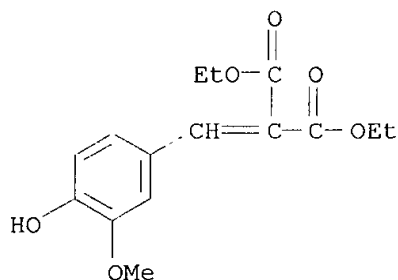
TI 4-(Polyalkoxyphenyl)-2-pyrrolidinones
 IN Huth, Andreas; Schmiechen, Ralph; Kehr, Wolfgang; Palenschat, Dieter;
 Paschelke, Gert; Wachtel, Helmut
 PA Schering A.-G., Ger.
 SO Ger. Offen., 41 pp. Addn. to Ger. Offen. 2,413,935.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2541855	A1	19770331	DE 1975-2541855	19750918
	CH 623571	A	19810615	CH 1976-8576	19760705
	SU 795465	D	19810107	SU 1976-2385904	19760728
	DK 7604086	A	19770319	DK 1976-4086	19760910
	DK 157919	B	19900305		
	DK 157919	C	19900806		
	IL 50451	A1	19811130	IL 1976-50451	19760910
	ES 451518	A2	19771001	ES 1976-451518	19760914
	SE 7610275	A	19770319	SE 1976-10275	19760916
	SE 407799	C	19790913		
	SE 407799	B	19790423		
	NL 7610300	A	19770322	NL 1976-10300	19760916
	DD 126894	W	19770817	DD 1976-194827	19760917
	BE 846335	A4	19770317	BE 1976-170731	19760917
	JP 52036659	A2	19770322	JP 1976-111693	19760917
	JP 61002660	B4	19860127		
	FR 2324299	A2	19770415	FR 1976-27961	19760917
	FR 2324299	B2	19800201		
	AT 7606907	A	19780915	AT 1976-6907	19760917
	AT 349459	B	19790410		
	HU 173117	P	19790228	HU 1976-SC578	19760917
	US 4153713	A	19790508	US 1976-724213	19760917
	CA 1077496	A1	19800513	CA 1976-261454	19760917
	AU 514234	B2	19810129	AU 1976-17892	19760917
	CS 225802	P	19840213	CS 1976-6054	19760917
	GB 1563398	A	19800326	GB 1976-38887	19760920
	CS 225847	P	19840213	CS 1982-4554	19820618
PRAI	IL 1975-46883		19750320		
	DE 1975-2541855		19750918		
	CS 1976-6054		19760917		
GI					

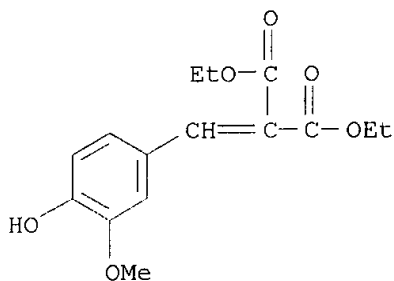


AB I (R = EtO₂C, PhCH₂O₂C, H₂NCO, MeNHCO, PhNHCO, Me₂CHNHCO, PhCH₂NMeCO), useful as tranquilizers (no data), are prepd. by std. procedures. Thus, reaction of 2.21 g 4-(3,4-dimethoxyphenyl)-2-pyrrolidinone with 30 mL ClCO₃Et in presence of Na₂CO₃ 16 h at 100.degree. gives 1.09 g I (R = EtO₂C).

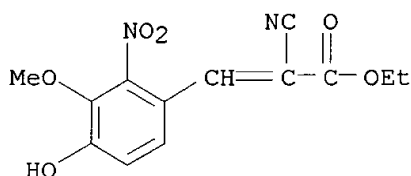
IT **24331-83-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, and reaction with nitromethane)
 RN 24331-83-7 HCAPLUS
 CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester
 (9CI) (CA INDEX NAME)



L7 ANSWER 54 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1976:446109 HCAPLUS
 DN 85:46109
 Correction of: earlier abstract
 TI Preparation, properties, and reactions of some conjugated heteroenoid compounds and related compounds
 AU Holmes, H. L.
 CS Def. Res. Establ. Suffield, Ralston, Alberta, Can.
 SO Struct.-Act. Relat. Some Conjugated Heteroenoid Compd., Catechol Monoethers Morphine Alkaloids (1975), Volume 2, 625-725. Editor(s): Holmes, H. L. Publisher: Def. Res. Establ. Suffield, Ralston, Alberta. CODEN: 31PDAW
 DT Conference
 LA English
 AB More than 1000 compds., of which >450 are new, were prepd., mostly by std. reactions, and are tabulated with their m.ps., b.ps., and/or refractive indexes and solvents used in their crystn. The prepd. compds. include the title compds. (styrenes, p-benzoquinones, 1,4-naphthoquinones, chromones, morphine alkaloids, etc.) and related compds. (guaiacols, alkyl hydrocinnamates, Bu .alpha.-methylbenzyl sulfides and sulfones, etc.).
 IT **24331-83-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 24331-83-7 HCAPLUS
 CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester
 (9CI) (CA INDEX NAME)



L7 ANSWER 55 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1976:179831 HCAPLUS
 DN 84:179831
 TI Some hydroxyamidines and amidoximes
 AU Briggs, Lindsay H.; Cambie, Richard C.; Dean, I. Christopher; Rutledge, Peter S.
 CS Dep. Chem., Univ. Auckland, Auckland, N. Z.
 SO Aust. J. Chem. (1976), 29(2), 357-66
 CODEN: AJCHAS
 DT Journal
 LA English
 AB Imidoyl chlorides $RC(:NR_1)Cl$ reacted with $PhNHOH$ to give twenty-nine resp. $RC(:NR_1)N(OH)Ph$ (I) ($R = Ph$, substituted phenyl; $R_1 = alkyl, Ph$, substituted phenyl, $PhCH_2$, cyclohexyl, naphthyl). Six $PhC(:NOH)NHR$ ($R = Ph$, substituted) were prepd. by treatment of $PhC(:NR)Cl$ with $HONH_2.HCl$. The Cu and Ni chelates of I ($R = R_1 = Ph$) and I ($R = Ph$, $R_1 = 2-naphthyl$) were also prepd.
 IT **59387-76-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 59387-76-7 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxy-2-nitrophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

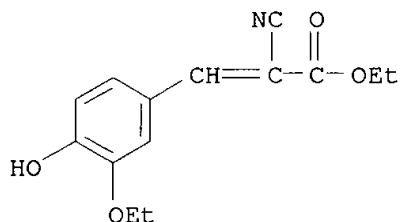


u/p/a

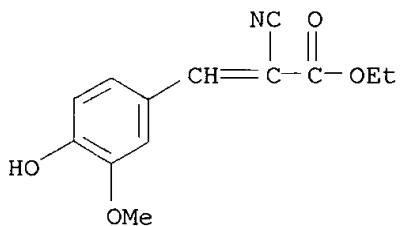
L7 ANSWER 56 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1976:105592 HCAPLUS
 DN 84:105592
 TI 4-Benzyl-2-imidazolidinones from N-[(1-cyano-2-phenyl)ethyl] carbamates
 IN Gruenman, Vsevolod; Hoffer, Max
 PA Hoffmann-La Roche, Inc., USA
 SO U.S., 17 pp.
 CODEN: USXXAM
 DT Patent
 LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3923833	A	19751202	US 1974-440638	19740207
	US 3636039	A	19720118	US 1970-13769	19700224
	DK 7505700	A	19751215	DK 1975-5700	19751215
PRAI	US 1968-725946		19680501		
	US 1970-13769		19700224		
	US 1971-184950		19710929		
	DK 1971-831		19710224		
GI	For diagram(s), see printed CA Issue.				
AB	Fifteen imidazolidinones I (R = H, Me, MeO; R1 = H, MeO, HO, EtO, OCH2CH2OH, BuO; R2 = H, MeO, HO, HOCH2CH2O; R3 = H, MeO) were prepd. from 2,3,4,5-RR1R2R3C6HCH2CH(CH2NH2)NHCO2Me. Thus, 3,4-(MeO)2C6H3CH:C(CN)CO2Et was hydrogenated, treated with H2NNH2 and the 3,4-(MeO)2C6H3CH2CH(CN)CONHNH2 subjected to Curtius rearrangement followed by hydrogenation to give 3,4-(MeO)2C6H3CH2CH(CH2NH2)NHCO2Me (II), which was cyclized with NaOH to give I (R = R3 = H, R1 = R2 = MeO). II was hydrolyzed with HCl to give 3,4-(MeO)2C6H3CH2CH(NH2)CH2NH2, which with Cl2CO gave I (R = R3 = H, R1 = R2 = MeO). At 10 mg/kg I (R = R3 = H, R1 = R2 = MeO) reduced the av. blood pressure of dogs from 130 mm to 98 mm after 120 min.				
IT	13229-95-3				
	RL: RCT (Reactant)				
	(hydrogenation and reaction with hydrazine)				
RN	13229-95-3 HCAPLUS				
CN	2-Propenoic acid, 2-cyano-3-(3-ethoxy-4-hydroxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)				



IT **13373-29-0P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrogenation of)
 RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
 (9CI) (CA INDEX NAME)



L7 ANSWER 57 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1976:30878 HCAPLUS
 DN 84:30878
 TI 4-(Polyalkoxyphenyl)-2-pyrrolidones
 IN Schmiechen, Ralph; Horowski, Reinhard; Palenschat, Dieter; Paschelke,
 Gert; Wachtel, Helmut; Kehr, Wolfgang
 PA Schering A.-G., Ger.
 SO Ger. Offen., 48 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2413935	A1	19751016	DE 1974-2413935	19740320
	DE 2413935	C2	19880526		
	SU 649312	D	19790225	SU 1975-2111302	19750310
	DK 7501106	A	19750921	DK 1975-1106	19750318
	DK 139965	C	19791029		
	DK 139965	B	19790528		
	DD 119229	C	19760412	DD 1975-184858	19750318
	ES 435750	A1	19761216	ES 1975-435750	19750318
	CH 621338	A	19810130	CH 1975-3457	19750318
	SE 7503157	A	19751128	SE 1975-3157	19750319
	SE 402010	C	19780921		
	AT 347931	B	19790125	AT 1975-2109	19750319
	CS 214738	P	19820528	CS 1975-1860	19750319
	BE 826923	A1	19750922	BE 1975-154536	19750320
	NL 7503367	A	19750923	NL 1975-3367	19750320
	FR 2264531	A1	19751017	FR 1975-8701	19750320
	JP 50157360	A2	19751219	JP 1975-34220	19750320
	JP 60011028	B4	19850322		
	AU 7579310	A1	19760923	AU 1975-79310	19750320
	US 4012495	A	19770315	US 1975-560193	19750320
	GB 1498705	A	19780125	GB 1975-11686	19750320
	IL 46883	A1	19790930	IL 1975-46883	19750320
	CA 1069517	A1	19800108	CA 1975-222720	19750320
	US 4193926	A	19800318	US 1976-659082	19760218
	AT 347932	B	19790125	AT 1977-3670	19770523
	CS 214739	P	19820528	CS 1980-2586	19800414
PRAI	DE 1974-2413935		19740320		
	CS 1975-1860		19750319		
	US 1975-560193		19750320		
	AT 1975-2109		19770523		

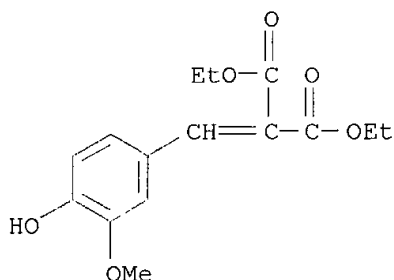
GI For diagram(s), see printed CA Issue.

AB Central depressant (no data) pyrrolidones I (R = R1 = Me, R2 = H, 2-OMe, 5-OMe, 6-OMe; RR1 = CH2, CH2CH2, R2 = H; R = H, CH2CHMe2, R2 = H, R1 = Me; R = Me R1 = R2 = H) were prepd. by treating R3CHO (R3 = RO(R1O)R2C6H2) with CH2(CO2Et)2, treating R3CH:C(CO2Et)2 with MeNO2, cyclizing O2NCH2CHR3CH(CO2Et)2 and decarboxylating. Alternatively R3CH:C(CO2Et)2 were treated with KCN, R3CH(CN)CH2CO2Et reduced, and H2NCH2CHR3CH2CO2Et cyclized with base. I (R = Me, R1 = R2 = H; R = R2 = H, R1 = Me) were alkylated.

IT **24331-83-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reaction of, with cyanide)

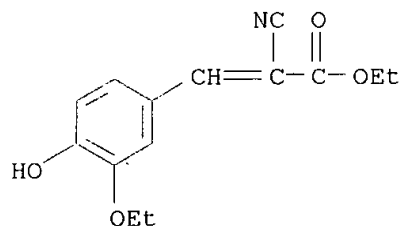
RN 24331-83-7 HCAPLUS
 CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester
 (9CI) (CA INDEX NAME)



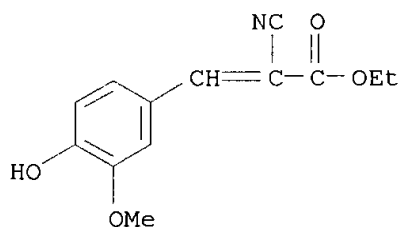
L7 ANSWER 58 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1976:17347 HCAPLUS
 DN 84:17347
 TI Substituted benzylethylenedicarbamates
 IN Gruenman, Vsevolod; Hoffer, Max
 PA Hoffmann-La Roche, Inc., USA
 SO U.S., 16 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3892777	A	19750701	US 1974-440640	19740207
	US 3636039	A	19720118	US 1970-13769	19700224
	DK 7505700	A	19751215	DK 1975-5700	19751215
PRAI	US 1970-13769		19700224		
	US 1974-184950		19740929		
	DK 1971-831		19710224		

GI For diagram(s), see printed CA Issue.
 AB The antihypertensive imidazolidinones I [R = H, MeO, Me; R1 = H, MeO, EtO, BuO, Me2CHO, HOCH2CH2O; R2 = H, HO, MeO, HOCH2CH2O; R3 = H, MeO] were prepd. from 2,3,4,5-RR1R2R3C6HCHO (II). Thus, condensation of II with NCCH2CO2Et and hydrogenation of the resulting cyanocinnamates gave 2,3,4,5-RR1R2R3C6HCH2CH(CN)CO2Et, which underwent hydrazinolysis and Curtius rearrangement to give 2,3,4,5-RR1R2R3C6HCH2CH(CN)NHCO2Me (III). Hydrogenation of the nitrile groups of III and subsequent base catalyzed cyclization gave I. Hydrolysis-decarboxylation of III gave the antihypotensive 2,3,4,5-RR1R2R3C6HCH2CH(NH2)CH2NH2. I (R = R3 = H; R1 = R2 = MeO) was also prepd. by cyclization of the title compd. 3,4-(MeO)2C6H3CH2CH(NHCO2Et)CH2NHCO2Et in refluxing EtOH contg. Na.
 IT **13229-95-3P 13373-29-0P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrogenation of)
 RN 13229-95-3 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(3-ethoxy-4-hydroxyphenyl)-, ethyl ester (9CI)
 (CA INDEX NAME)



RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
 (9CI) (CA INDEX NAME)



L7 ANSWER 59 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1974:464641 HCAPLUS
 DN 81:64641
 TI Polymeric uv-absorber and their use for stabilizing plastics
 IN Margotte, Dieter; Lachmann, Burkhardt; Vernaleken, Hugo; Rudolph, Hans;
 Cohnen, Wolfgang
 PA Farbenfabriken Bayer A.-G.
 SO Ger. Offen., 19 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2231531	A1	19740110	DE 1972-2231531	19720628
	US 3875123	A	19750401	US 1973-372724	19730622
	NL 7308878	A	19740102	NL 1973-8878	19730626
	NL 7308877	A	19740102	NL 1973-8877	19730626
	JP 49052841	A2	19740522	JP 1973-71338	19730626
	IT 985789	A	19741220	IT 1973-51044	19730626
	BE 801513	A1	19731227	BE 1973-132776	19730627
	AU 7357442	A1	19750109	AU 1973-57442	19730627
	ES 416353	A1	19760501	ES 1973-416353	19730627
	CA 1012680	A1	19770621	CA 1973-175401	19730627
	FR 2190864	A1	19740201	FR 1973-23779	19730628
	GB 1392166	A	19750430	GB 1973-30819	19730628
	AT 7305703	A	19751015	AT 1973-5703	19730628
	AT 331033	B	19760726		
	IT 1015410	A	19770510	IT 1974-24439	19740625
	US 3943094	A	19760309	US 1975-540306	19750110
PRAI	DE 1972-2231531		19720628		

DE 1972-2231532 19720628
 US 1973-372724 19730622
 FR 1973-23780 19730628

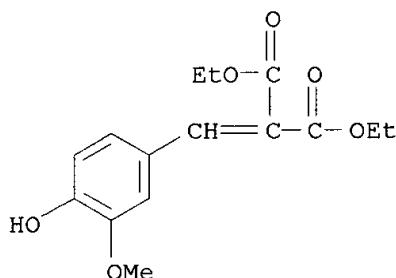
AB Polymers and copolymers from di-C1-8-alkyl (meth)acryloyloxybenzylidenemalonate(I, R = H or Me, R1 = H or MeO, R2 = C1-8 alkyl) were useful as uv absorbers for bisphenol A-phosgene copolymer (II) [25971-63-5]. Thus, CH2Cl2 contg. di-Et-hydroxybenzylidenemalonate [51938-27-3] and Et3N was added in 90 min to CH2Cl2 contg. methacryloyl chloride [920-46-7] to give di-Et 4-methacryloyloxybenzylidenemalonate [51886-65-8] which was polymd. to poly(di-Et 4-methacryloylbenzylidenemalonate) (III) [51936-41-5] (wt. av. mol. wt. 30,000) using azobisisobutyronitrile as initiator. II contg. TiO2 and III exhibited light reflectances (DIN 5033) 74 and 50% before and after, resp., 500 hr at 8 cm from a 250 W Hg lamp compared with 63 and 31%, resp., for a control.

IT 24331-83-7

RL: RCT (Reactant)
 (reaction of, with methacryloyl chloride)

RN 24331-83-7 HCAPLUS

CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 60 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1971:551793 HCAPLUS

DN 75:151793

TI 4-Benzyl-2-imidazolidinones

IN Gruenman, Vsevolod; Hoffer, Max

PA Hoffmann-La Roche, F., und Co., A.-G.

SO Ger. Offen., 31 pp.

CODEN: GWXXBX

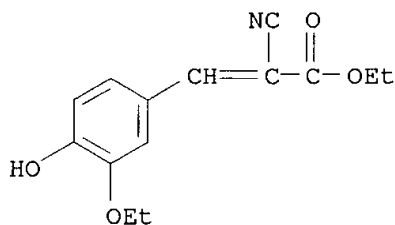
DT Patent

LA German

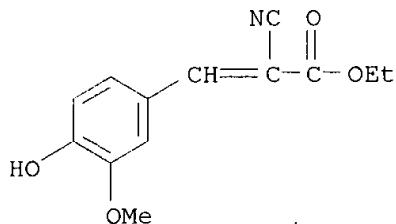
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2108438	A	19710909	DE 1971-2108438	19710222
	DE 2108438	C2	19870205		
	US 3636039	A	19720118	US 1970-13769	19700224
	CH 567482	A	19751015	CH 1971-2393	19710218
	CH 567483	A	19751015	CH 1974-1494	19710218
	ZA 7101077	A	19711027	ZA 1971-1077	19710219
	BR 7101125	A0	19730426	BR 1971-1125	19710219
	IL 36237	A1	19741129	IL 1971-36237	19710219
	NL 7102324	A	19710826	NL 1971-2324	19710222

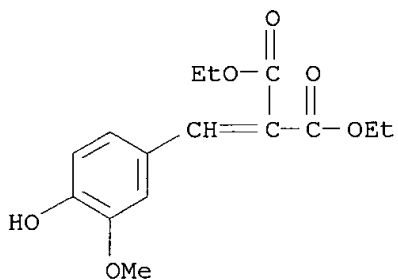
NL 171446	B	19821101		
NL 171446	C	19830405		
FI 54919	C	19790410	FI 1971-501	19710222
FI 54919	B	19781229		
BE 763298	A1	19710823	BE 1971-100065	19710223
NO 130680	B	19741014	NO 1971-654	19710223
FR 2081537	A5	19711203	FR 1971-6262	19710224
FR 2081537	B1	19740823		
SE 369190	B	19740812	SE 1971-2361	19710224
CA 967163	A1	19750506	CA 1971-106142	19710224
DK 134601	B	19761206	DK 1971-831	19710224
JP 54021338	B4	19790730	JP 1971-9234	19710224
GB 1292768	A	19721011	GB 1971-1292768	19710419
DK 7505700	A	19751215	DK 1975-5700	19751215
PRAI US 1970-13769		19700224		
DK 1971-831		19710224		
GI	For diagram(s), see printed CA Issue.			
AB	Substituted 4-benzyl-2-imidazolidinones (I) where R=R1=OMe, OCHMe2, OBU, useful as hypotensive agents, were prepd. by cyclization of 3,4-RR1C6H3CH2CH(CH2NH2)NHCO2Me or by alkylation of I (R or R1=OH). Thus 3,4-EtO(MeO)C6H3CHO was reacted with NCCH2CO2Et in EtOH in the presence of piperidine for 10 min at 50-60.degree. to give 3,4-EtO(MeO)C6H3CH:C(CN)CO2Et which upon subsequent hydrogenation, reaction with hydrazine, and modified Curtius reaction (treating with HNO2 to the azide and refluxing the azide in abs. MeOH) of the hydrazide formed followed by redn. of the CN group to CH2NH2 with Raney Co hydrogenation in MeOH gave dl-Me 1-aminomethyl-2-(3-ethoxy-4-methoxyphenyl)ethylcarbamate-HCl (II). II was added to 3N NaOH, stirred 15 min at 90-5.degree. and 24 hr at 20.degree. to give I (R=OEt and R1=OMe), which was also prepd. by ethylation of I (R=OH, R1=OMe) with Et2SO4 and NaOH.			
IT	13229-95-3P 13373-29-0P			
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)			
RN	13229-95-3 HCAPLUS			
CN	2-Propenoic acid, 2-cyano-3-(3-ethoxy-4-hydroxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)			



RN 13373-29-0 HCAPLUS
 CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



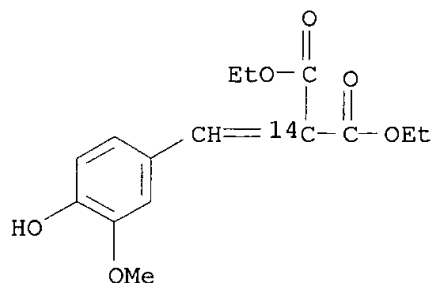
L7 ANSWER 61 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1969:476035 HCAPLUS
 DN 71:76035
 TI Conformation and configuration of some .alpha.,.beta.-unsaturated carbonyl compounds from their nuclear magnetic resonance spectra
 AU Phillips, W. M.; Currie, D. J.
 CS Def. Res. Estab., Ralston, Alberta, Can.
 SO Can. J. Chem. (1969), 47(17), 3137-46
 CODEN: CJCHAG
 DT Journal
 LA English
 AB N.M.R. spectra were recorded for 95 styrenes with 2 functional groups (A and B) on the .beta.-C atom, where A, B are Ac, Ac; Ac, CO2Et; CO2Et, Ac; CO2Et, CO2Et; CO2Et, CN; and CO2Et, H. The chem. shifts of the ethylenic H and the H of the functional A and B groups were examd. in detail to det. the effects of ring substituents. The configuration of the unsym. styrenes and the conformation of the A and B groups as deduced from the spectra are discussed.
 IT **24331-83-7**
 RL: PRP (Properties)
 (conformation and N.M.R. of)
 RN 24331-83-7 HCAPLUS
 CN Propanedioic acid, [(4-hydroxy-3-methoxyphenyl)methylene]-, diethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 62 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1968:459442 HCAPLUS
 DN 69:59442
 TI Synthesis of carbon-14 labeled ferulic acid and its triterpene esters
 AU Kondo, Hiroyuki; Tachibana, Koichi; Ikeda, Masamichi; Kubodera, Tadayoshi; Shinozaki, Yoshiharu
 CS Nakataki Pharm. Ind. Co., Inc., Tokyo, Japan

SO Radioisotopes (Tokyo) (1968), 17(4), 147-50
 CODEN: RAISAB
 DT Journal
 LA Japanese
 AB Malonic acid-2-¹⁴C, 2 mCi (4.36 mCi./millimole) with di-Et malonate as carrier, was warmed to 50.degree. with 1.52 g. vanillin and 3 drops piperidine, allowed to stand 3 days, and worked up to give 60.5% di-Et 4-hydroxy-3-methoxybenzalmalonate-2-¹⁴C (I), m. 105-6.degree. (3:2 MeOH-H₂O). Sapon. of 1.70 g. I in 4.0 ml. 50% KOH in a boiling water bath 2 hrs. gave 86.9% 4-hydroxy-3-methoxybenzalmalonic acid-2-¹⁴C (II), m. 168-70.degree.. A mixt. of 1.240 g. II, 2 ml. Ac₂O, and 4 ml. anhyd. pyridine was kept 2 days and worked up to give 87% 4-acetylferulic acid-2-¹⁴C (III), m. 195-7.degree. (AcOH), sp. radioactivity 0.19 mCi./millimole. (III) (240 mg.) in 3 ml. 10% NaOH was stirred 24 hrs. at room temp. and made acidic to yield 73.4% ferulic acid-2-¹⁴C (IV) m. 168.degree. (H₂O). Ferulic acid triterpene esters were also prepd. by standard methods. These were found to be applicable in bioassay of, for example, such esters isolated from rice bran oil.

IT **20486-13-9P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 20486-13-9 HCAPLUS
 CN Malonic-2-¹⁴C acid, vanillylidene-, diethyl ester (8CI) (CA INDEX NAME)



L7 ANSWER 63 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1967:463999 HCAPLUS
 DN 67:63999
 TI Condensation of vinyl cyanoacetate with aromatic aldehydes
 AU Inukai, Yoshihiko; Mase, Koichi
 CS Nagoya Munich. Ind. Res. Inst., Nagoya, Japan
 SO Nippon Kagaku Zasshi (1966), 87(12), 1366-8
 CODEN: NPKZAZ
 DT Journal
 LA Japanese
 AB NCCH₂CO₂CH:CH₂ (0.01 mole) and 0.01 mole aromatic aldehyde RCHO in 3-5 ml. dioxane was kept overnight with 0.04 ml. piperidine to give RCH:C(CN)CO₂CH:CH₂ (R, m.p., and % yield given): Ph, 74.5-75.degree., 33; PhCH:CH, 117-19.degree., 41; p-MeOC₆H₄, 109-9.5.degree., 66; 3,4-methylenedioxyphenyl, 132-2.5.degree., 49; 3,4-(MeO)(HO)C₆H₃, 128-9.degree., 68; p-HOC₆H₄, 183-4.degree., 65; m-HOC₆H₄, 107-8.degree., 51; p-Me₂NC₆H₄, 139-9.5.degree., 50; p-O₂NC₆H₄, 144-4.5.degree., 33; m-O₂NC₆H₄, 146-7.degree., 37; o-O₂NC₆H₄, 117-18.degree., 33; 2-furyl, 72.5-3.degree., 66. The corresponding Et esters were obtained in better

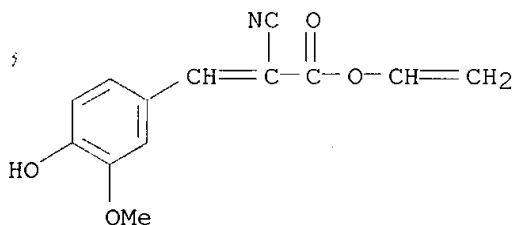
yields, the results being attributed to the effect of vinyl group. o-HOC6H4CHO; 2-hydroxy-1-naphthaldehyde and o-H2NC6H4CHO gave 3-cyanocoumarin, m. 189-90.degree., 3-cyanobenzo[5.6]coumarin, m. >300.degree., and 3-cyanocarbostyryl, m. >300.degree., in 17, 32, and 14% yields, resp.

IT **15119-27-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 15119-27-4 HCAPLUS

CN Cinnamic acid, .alpha.-cyano-4-hydroxy-3-methoxy-, vinyl ester (8CI) (CA INDEX NAME)



claim ①

L7 ANSWER 64 OF 65 HCAPLUS COPYRIGHT 2002 ACS

AN 1967:443631 HCAPLUS

DN 67:43631

TI Aromatic 1,3-dialdehydes: reactions of 5-methoxy-6-hydroxyisophthalaldehyde

AU Profft, Elmar; Stuehmer, K.

CS Tech. Hochsch. Chem., Leuna-Merseburg, Ger.

SO Arch. Pharm. Ber. Dtsch. Pharm. Ges. (1967), 300(1), 1-30
CODEN: APBDAJ

DT Journal

LA German

GI For diagram(s), see printed CA Issue.

AB Reaction of 5-methoxy-6-hydroxyisophthalaldehyde (I) with compds. having reactive CH2 groups and with amines was studied. While the CHO group ortho to the OH group reacted very readily, the 2nd CHO group reacted only in a few cases, even under forced reaction conditions. Reactions of some other o-hydroxybenzaldehydes were also studied. I (6 g.), 10 ml. di-Et malonate (II), and 12 drops piperidine (III) was heated with stirring for 2.5 hrs. at 85-90.degree. to give 58% IV (R = CHO, R1 = CO2Et, R2 = OMe), m. 209-10.5.degree. (AcOH); 2,4-dinitrophenylhydrazine m. 305-7.degree.; oxime m. 212-13.5.degree. (50% AcOH); thiosemicarbazone m. 247-8.degree. (decompn.). The following IV (R2 = MeO) were prepd. similarly (reactive compd., R, R1, m.p., % yield given): ethyl benzoylacetate, CHO, Bz, 221-2.degree. (AcOH), 48; PhCH2CN, CHO, Ph, 200-3.degree. (EtOH), 9.1. To 6 g. I, 15 ml. II, and 10 drops III, heated at 150.degree. for 3 hrs., 3 drops III was added every 15 min. Addn. of 30 ml. EtOH to the cooled soln. and then allowing it to stand overnight gave 33% IV [R = CH:C(CO2Et)2, R1 = CO2Et, R2 = OMe], m. 143-4.degree. (EtOH). Satn. at 20.degree. of a soln. of 6 g. I and 15 ml. II in 80 ml. EtOH with gaseous HCl gave 67.3% IV [R = CHO, R1 = CO2Et, R2 = CCl:C(CO2Et)2], m. 148-9.degree. (decompn.) (aq. EtOH); the corresponding acid m. 213-14.degree.. I (6 g.) in 10 ml. Et acetoacetate, 50 ml. EtOH, and 10 drops III was allowed to stand for 14 days to give 39.4% Et

2-hydroxy-3-methoxy-5-formylbenzylideneacetoacetate, m. 233-5.degree. (AcOH); 2,4-dinitrophenylhydrazine m. 236-8.degree. (decompn.) (AcOH); oxime m. >250.degree.; thiosemicarbazone m. 165-6.degree. (decompn.) (EtOH). Similarly were prepd. from di-Et acetoacetaldehyde (V) 63.5% 2-hydroxy-3-methoxy-5-formylbenzylideneacetoacetaldehyde, m. 142.degree. (EtOH); 2,4-dinitrophenylhydrazine m. 217-19.degree. (AcOH); from acetylacetone 66.7% 2-hydroxy-3-methoxy-5-formylbenzylideneacetylacetone, m. 174.5.degree. (H₂O). o-Vanillin (VI) and V under the same conditions gave 78.5% di-Et 2-hydroxy-3-benzylideneoxalacetate, m. 116-17.degree. (EtOH). Reaction of I (at 0.degree.) and VI, or salicylaldehyde (VII), in EtOH with p-nitrobenzyl cyanide in the presence of III yielded the coumarin imides (VIII) which on treatment with hot aq. AcOH gave the corresponding IV (aldehyde, R, R₁, R₂, m.p. VIII, % yield VIII, m. p. IV, and % yield IV given): I, CHO, p-O₂NC₆H₄, OMe, 222-4.degree. (decompn.), 97.3, 298.5-300.degree., 84.6; VI, H, p-O₂NC₆H₄, OMe, 186-7.degree., 72.7, 300-1.5.degree., 93.4; VII, H, p-O₂NC₆H₄, H, 178-9.degree., 95.3, 269-70.degree., 97.7. The 2-amino-2-(1-cyanocarbethoxymethyl)-3-carbethoxy-3-chromenes (IX) given below were prepd. by allowing 0.05 mole aldehyde and 0.11 mole Et cyanoacetate (X) or 0.05 mole dialdehyde and 0.16 mole X stand 24 hrs. in 50-100 ml. EtOH in the presence of 5 drops III. By addn. of 10 ml. H₂O to 0.02 mole IX in 40-80 ml. boiling AcOH the corresponding IV (R₂ = CO₂Et were obtained (R, R₁, m.p. IX, % yield IX, m.p. IV, % yield IV given): H, H, 139-40.degree. (EtOH), 88, 92-3.degree. (H₂O, EtOH), 89; H, OMe, 136-8.degree. (EtOH), 85, 95-7.degree. (EtOH), 97; CH:C(CN)CO₂Et, H, 159-60.degree. (Me₂CO), 68, 192-4.degree. (AcOH), 98; CH:C(CN)CO₂Et, OH, 153-5.degree. (Me₂CO), 66, 212-14.degree. (AcOH), 97; CH:C(CN)CO₂Et, OMe, 156-8.degree. (Me₂CO), 91, 190-1.degree. (AcOH), 92. Vanillin and X under the conditions of the IX formation gave 97.3% Et 3-methoxy-4-hydroxybenzylidenecyanoacetate, m. 108-9.degree. (benzene-ligroine). Refluxing 6.1 g. VII, 11.3 g. X, and 10 drops III for 1.5 hrs. in 100 ml. EtOH gave 26.8% IV [R = H, R₁ = H₂NC:C(CN)CO₂Et, R₂ = H], m. 246-7.degree. (AcOH), besides IX (R = R₁ = H), as the main product. Similarly, VI and X gave 21.7% IV (R = H, R₁ = H₂NC:C(CN)CO₂Et, R₂ = OMe), m. 242.5-44.degree., besides IX (R = H, R₁ = OMe). When 6.1 g. VII, 6.8 g. X, and 20 drops III in 60 ml. AcOH plus 2 ml. H₂O were allowed to stand for 3 weeks, 81.5% IV (R = H, R₁ = CO₂Et, R₂ = H), m. 94-5.degree., was obtained. I (6 g.) and 6 g. AcPh in 300 ml. 2% NaOH was stored for 24 hrs. in the cold, the pptd. Na salt dissolved in hot 50% EtOH and acidified with dil. H₂SO₄ to give 52% 2-hydroxy-3-methoxy-5-formylstyryl Ph ketone, m. 161-1.5.degree.. The following Schiff bases (XI) of I were prepd. (R₃, R₄, m.p., and % yield given): CHO, Ph, 130-1.degree. (EtOH), 97; CH:NPh, Ph, 132-3.degree. (EtOH), 88; CHO, Pr, 119-20.degree. (H₂O), 76; CH:NPr, Pr, 58-9.5.degree. (ligroine), 84.5; CHO, Bu, 106-9.degree. (benzene), 74; CH:NBu, Bu, - (b₃ 210-15.degree.), 64; CHO, o-ClC₆H₄, 185-6.degree., 78; CHO, m-ClC₆H₄, 151-2.degree. (EtOH), 93.5; CHO, p-ClC₆H₄, 138-9.degree. (benzene), 98; CHO, 2,4-Cl₂C₆H₃, 187-9.degree. (benzene), 87; CHO, 3,5-Cl₂C₆H₃, 187-8.5.degree. (benzene-AcOH), 92; CHO, p-O₂NC₆H₄, 253-4.degree. (AcOH), 95. I and o-nitroaniline (XII) gave 89% o-nitrophenylamino(2-hydroxy-3-methoxy-5-formylphenyl)methanol, m. 97-8.degree. (AcOH). VI and XII gave 56% 2-hydroxy-3-methoxybenzylidene-o-nitroaniline, m. 130-1.degree. (EtOH). The constitution of some of the compds. was clarified by ir spectroscopy.

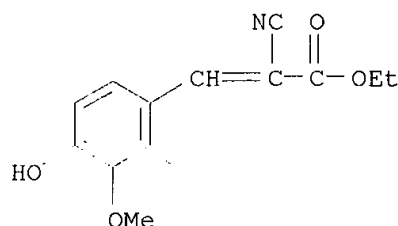
IT 13373-29-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 13373-29-0 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester

(9CI) (CA INDEX NAME)



L7 ANSWER 65 OF 65 HCAPLUS COPYRIGHT 2002 ACS
 AN 1967:2437 HCAPLUS
 DN 66:2437
 TI Knoevenagel reaction between hydroxybenzaldehydes and ethyl cyanoacetate
 AU Yasuda, Heinosuke; Midorikawa, Hiroshi
 CS Inst. Phys. Chem. Res., Toyko, Japan
 SO Bull. Chem. Soc. Jpn. (1966), 39(8), 1754-9
 CODEN: BCSJA8
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB The base-catalyzed condensation between NCCH₂CO₂Et (I) and o-HOC₆H₄CHO (II) (significant reaction occurred only with the use of 2 equivs. I) was reinvestigated as follows: 1 drop piperidine (III) added to 3 g. II, 5.6 g. I, and 15 ml. EtOH at reflux, the mixt. refluxed 1 hr., kept overnight at room temp., filtered, and the ppt. (1.3 g.) washed (EtOH) and crystd. (EtOH) gave IV (R = R₁ = R₂ = R₃ = H), m. 245-6.degree. (Matsumura, CA 56, 344f). The filtrate and washings from this condensation were dild. with H₂O, extd. with Et₂O, the ext. evapd., and the residue shaken with MeOH and crystd. (EtOH-H₂O) to give 3.3 g. V [R = NH₂, CH(CN)CO₂Et, R₁ = CO₂Et, R₂ = R₃ = R₄ = R₅ = H], m. 137.5-8.5.degree. (cf. Matsumura, loc. cit.). Similar condensations using substituted 2-hydroxybenzaldehydes and I (in molar ratio of 1:2) produced only the following IV derivs. (R, R₁, R₂, R₃, and m.p. given): H, H, Br, H, 272-3.degree. (BuOH); H, H, Cl, H, 265-6.degree.; H, H, NO₂, H, 238-9.degree.; H, H, H, Me, 238-9.degree.; H, OH, H, H, 277-8.degree. (decompn.); OMe, H, H, H, 240-1.degree.. IV derivs. were characterized by a strong ir absorption band at 2200 cm.⁻¹ (.alpha., .beta.-unsatd. nitrile stretching). Reactions involving 1:1 molar ratios of I and a substituted 2-hydroxybenzaldehyde gave 35-82% yield of the following nitrile-free V (R = NH₂, R₁ = CO₂Et, R₂ = H) derivs. (R₃, R₄, R₅, and m.p. given): Cl, H, H, 119-20.degree.; H, H, OH (VI), 179-80.degree. (decompn.); H, OH, H, 182-3.degree.; OH, H, H, 200-1.degree.; Br, OH, Br (VII), 245-6.degree. (decompn.); NO₂, OH, H, >300.degree.. 2-Hydroxy-5-phenylazo- and 3,5-dibromo-2,4-dihydroxybenzaldehyde behaved abnormally in condensations using excess I to give V (R = O, R₁ = CO₂Et, R₃ = PhN₂, R₂ = R₄ = R₅ = H), m. 153-4.degree., and VII, resp. Other unexpected results came from the condensations of 5-nitro-, 3-methoxy-, and 4-methoxysalicylaldehydes with I (1:1 molar ratios), to give V (R = O, R₁ = CO₂Et, R₃ = NO₂, R₂ = R₄ = R₅ = H), m. 193-4.degree., V (R = O, R₁ = CN, R₂ = R₃ = R₄ = H, R₅ = OMe), m. 222-3.degree., and V (R = O, R₁ = CN, R₂ = R₃ = R₅ = H, R₄ = OMe), m. 218-19.degree., resp. Knoevenagel reactions using m- and p-hydroxybenzaldehydes and excess of I afforded the following VIII derivs.

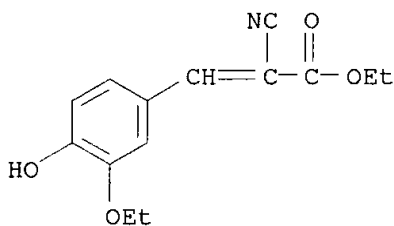
(R, R1, R2, R3, R4, and m.p. given): H, OH, H, H, H, 91-2.degree.; H, H, OH, H, H, 171-2.degree.; H, OMe, OH, H, H, 106-7.degree.; H, OEt, OH, H, H, 76-7.degree.; H, Me, OH, H, H, 220-1.degree.; H, Me, OH, Me, H, 124-5.degree.; H, iso-Pr, OH, H, Me, 190-1.degree.; H, Cl, OH, H, H, 199-200.degree.; OMe, H, OMe, H, H, 138-9.degree.. The reaction of 3,4-(HO)2C6H3CHO with I gave 3,4-(HO)2C6H3CH(OH)CH(CN)CO2Et (IX), m. 166-7.degree.. IX refluxed with Ac2O produced VIII (R = R3 = R4 = H, R1 = R2 = AcO), m. 103-4.degree., while VI boiled with Ac2O gave V (R = O, R1 = CO2Et, R2 = R3 = R4 = H, R5 = AcO), m. 147-8.degree.. The previously reported (CA 53, 16051h) condensation of 2-hydroxy-3-isopropyl-6-methylbenzaldehyde with I to give di-Et 2,4-dicyano-3-(2-hydroxy-3-isopropyl-6-methylphenyl)glutarate is incorrect, and the product is V [R = NH2, CH(CN)CO2Et, R1 = CO2Et, R2 = iso-Pr, R3 = R4 = H, R5 = Me (X)]. Thus, X refluxed with 10% H2SO4-EtOH gave V (R = O, R1 = CO2Et, R2 = iso-Pr, R3 = R4 = R4 = H, R5 = Me), m. 120-20.5.degree..

IT **13229-95-3P 13373-29-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 13229-95-3 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(3-ethoxy-4-hydroxyphenyl)-, ethyl ester (9CI)
(CA INDEX NAME)



RN 13373-29-0 HCAPLUS

CN 2-Propenoic acid, 2-cyano-3-(4-hydroxy-3-methoxyphenyl)-, ethyl ester
(9CI) (CA INDEX NAME)

